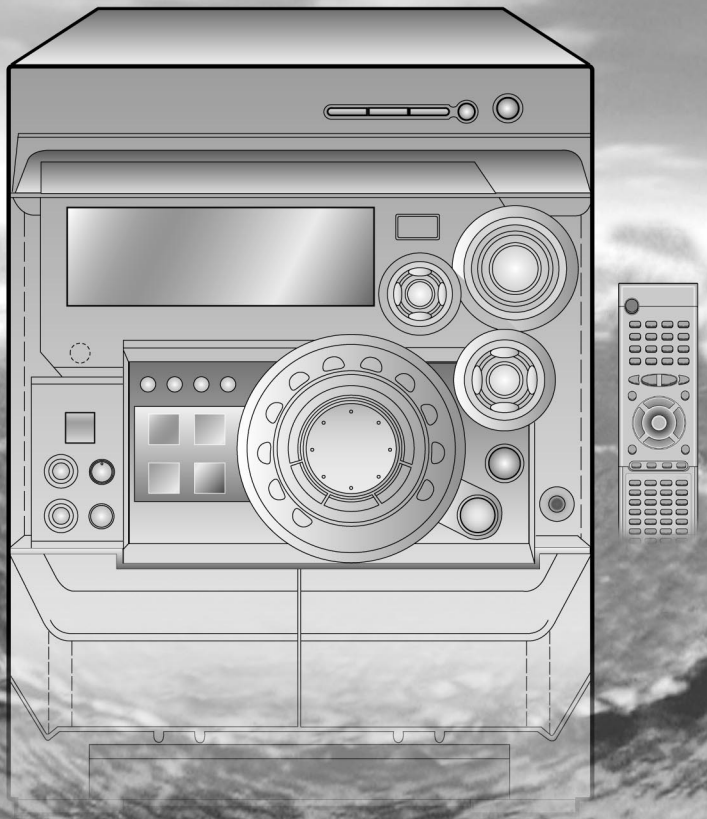
SAMSUNG

DVD KARAOKE
MINI COMPONENT SYSTEM
DVD-OK/DVD/VCD/MP3-CD/CD
CD-R/RW PLAYBACK

MAX-KDZ150

Instruction Manual



Safety Warnings

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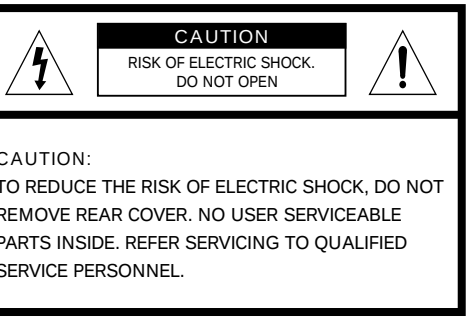
CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1


CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN
CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CLASS 1 LASER PRODUCT

This Mini Component System player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Contents

Thank you for buying this SAMSUNG Mini Component System.

Please take time to read these instructions. They will allow you to operate your system with ease and take full advantage of its features.

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DVD (Digital Versatile Disc) offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie theater or concert hall.

DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
The Region Numeric for this player is given on the rear panel of the player.
(Your DVD player will only play DVDs that are labeled with identical region codes.)

Playable Discs

Disc Types	Marks	Recording Types	Disc Size	Max. Playing Time
DVD		Audio+Video	12cm	Approx. 240 min.(Single-sided)
				Approx. 480 min.(Double-sided)
			8cm	Approx. 80 min.(Single-sided)
				Approx. 160 min.(Double-sided)
VIDEO-CD		Audio+Video	12cm	74 min.
			8cm	20 min.
AUDIO-CD		Audio	12cm	74 min.
			8cm	20 min.

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"DTS" and "DTS Digital Out "are trademarks of Digital Theater Systems,Inc.

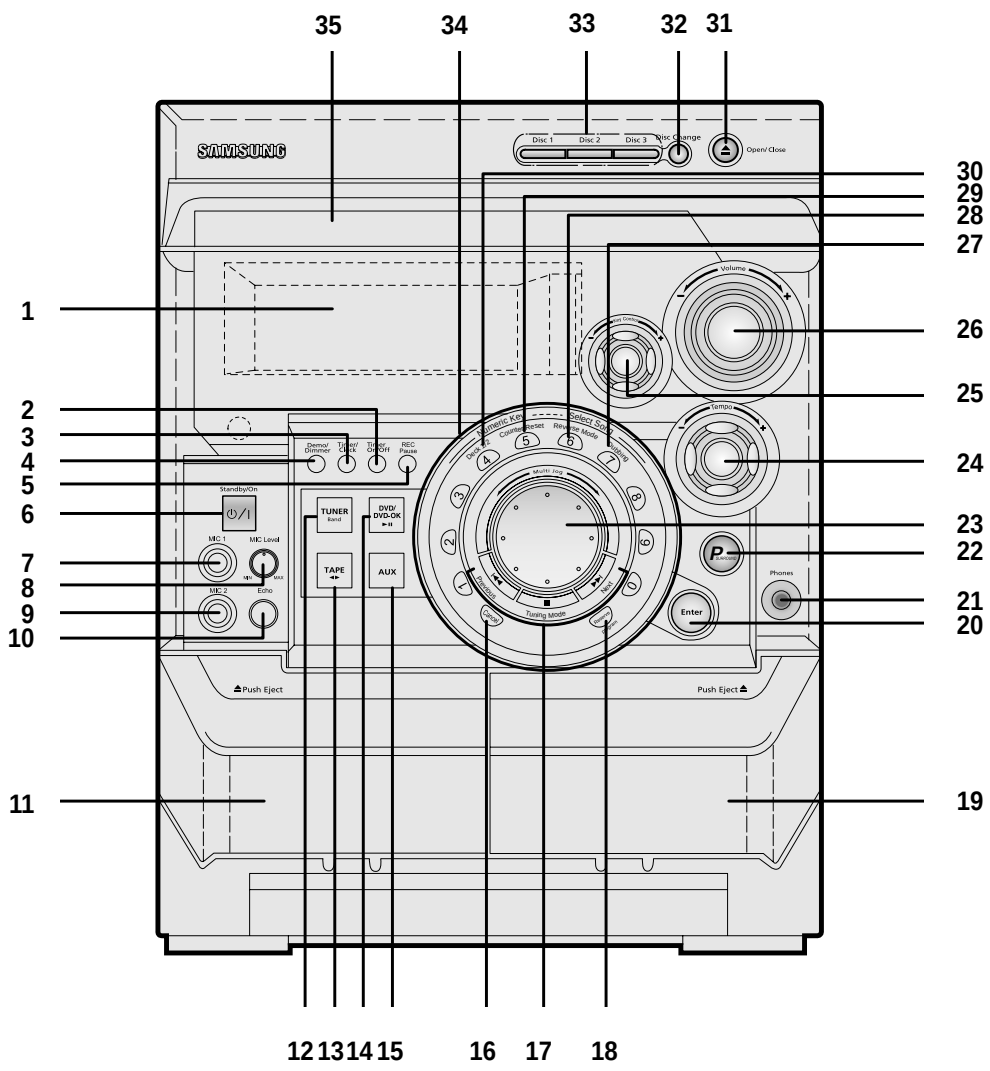
Do not use the following types of disc!

- LD, CD-G, CD-I, CD-ROM and DVD-ROM cannot be played on this player.
  If such discs are played, a "**WRONG DISC FORMAT**" message appears on the TV screen.
- DVD discs purchased abroad may not play on this player.
  If such discs are played, a "**WRONG REGION CODE**" message appears on the TV screen.

Copy Protection

- **Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.**
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Front Panel View



1. Display Window
2. Timer On/Off button
3. Timer/Clock button
4. Demo/Dimmer button
5. REC/Pause button
6. Standby/On(⏻/I) button
7. Mic Jack connector 1
8. Mic Level
9. Mic Jack connector 2
10. Echo button
11. Cassette Deck 1
12. TUNER Band button
13. TAPE button
14. DVD/DVD-OK(▶II) button
15. AUX button
16. Cancel button
17. Previous/Next skip or search button Stop(■) /Tuning Mode button
18. Reserve/Program button
19. Cassette Deck 2
20. Enter button
21. Headphone Jack connector
22. Power Surround button
23. Multi Jog
24. Tempo
25. Key Control
26. Volume
27. Dubbing button
28. Reverse Mode button
29. Counter Reset button
30. Deck 1/2 button
31. Open/Close(⏏) button
32. Disc Change button
33. Disc Selection Buttons
34. Numeric buttons
35. Disk Compartment

Rear Panel View

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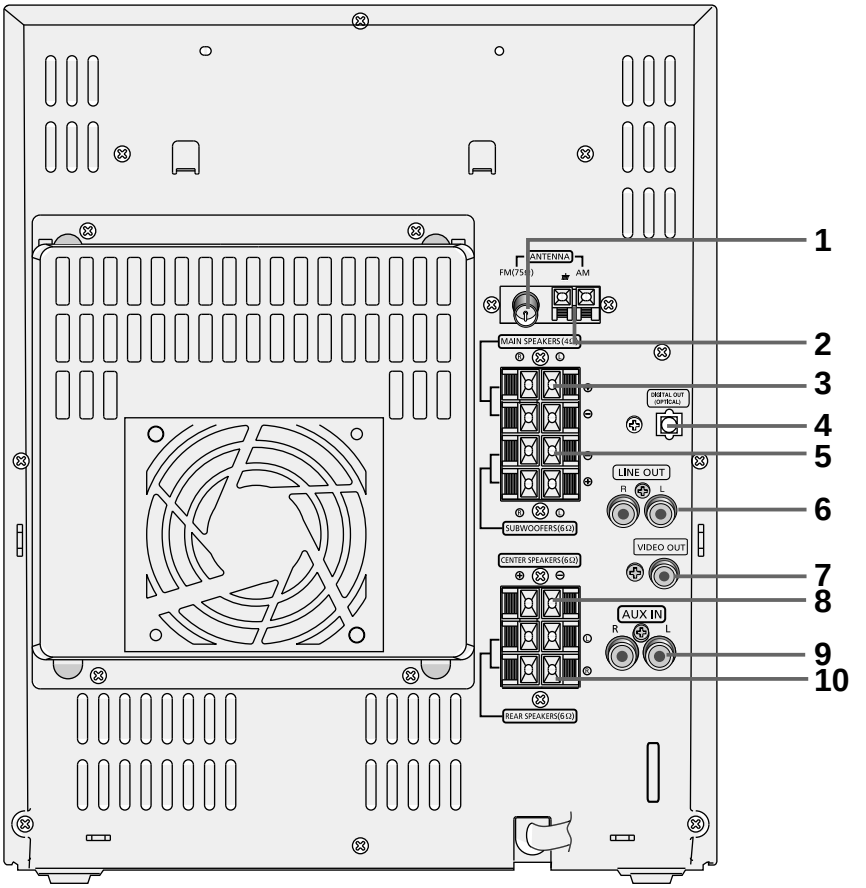
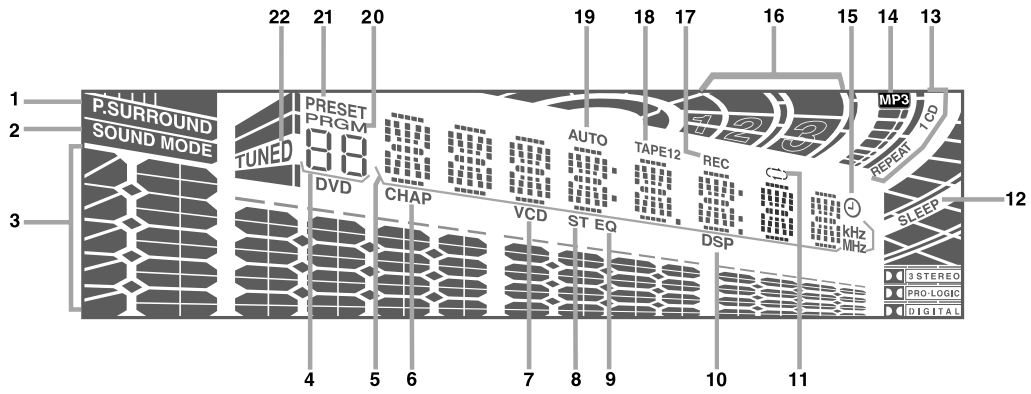


1. **FM Aerial Connector Terminal**
2. **AM Aerial Connector Terminals**
3. **Main speaker Connector Terminals**
4. **Digital Out Jack(optical)**
5. **Subwoofers speaker Connector Terminals**
6. **Line Out**
7. **Video Out**
8. **Center speaker Connector Terminals**
9. **AUX Input**
10. **Rear speaker Connector Terminals**

Display Window



1. **Power Surround**
2. **Sound mode**
3. **Volume and EQ Level**
4. **Tuner Preset and Title**
5. **Main Display(Function, Frequency, Time, etc.)**
6. **Chapter**
7. **VCD**
8. **FM mode(Stereo)**
9. **EQ**
10. **DSP**
11. **Tape Reverse mode**
12. **Sleep**
13. **CD Playing Disc mode or CD Repeat mode**
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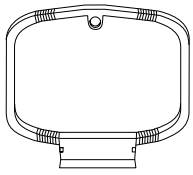
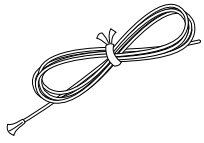
18. **TAPE 1/2**
19. **Tuning mode(AUTO)**
20. **Program**
21. **Tuner Preset**
22. **TUNED**

Accessories

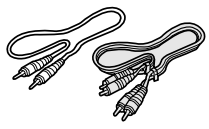
REMOTE CONTROL



AM(MW)/LW ANTENNA



FM ANTENNA

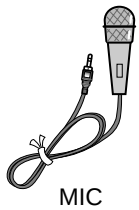


VIDEO/ AUDIO CABLE

MANUAL

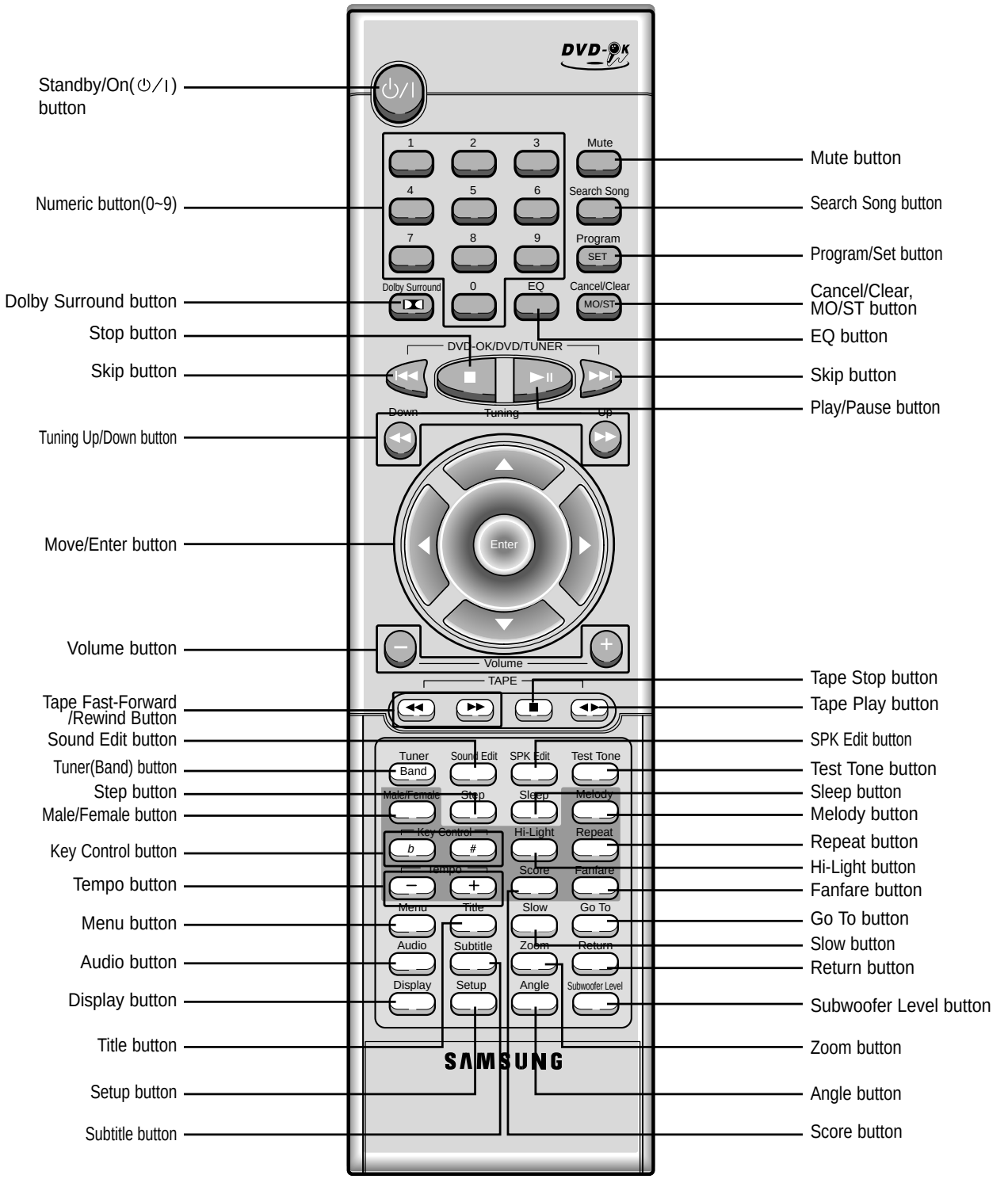
DVD KARAOKE DISC

SONG LIST BOOK



MIC

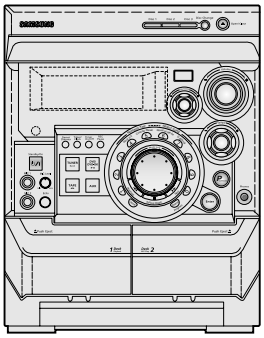
Remote Control



Where to Install Your Mini Component System

To take full advantage of your new Mini Component System, follow these installation instructions before connecting the unit.

- Install the system on a flat, stable surface.
- Never place this unit on carpeting.
- Never place this unit in an outdoor area.
- Maintain an open space of approximately 6 inches (15 cm) on the sides and rear of the system, for ventilation purposes.
- Make sure that you have enough room to open the disc compartment easily.
- Place the loudspeakers at a reasonable distance on either side of the system to ensure good stereo sound.
- Direct the loudspeakers towards the listening area.
- For optimum performance, make sure that both speakers are placed at an equal distance above the floor.



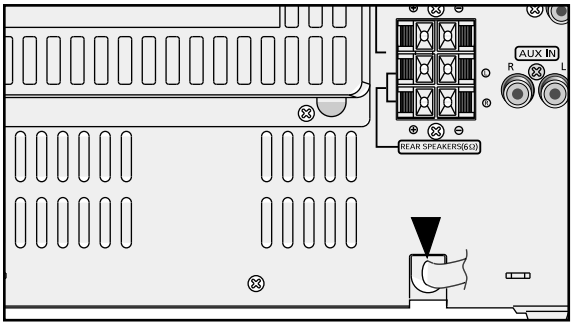
Connecting your System to the Power Supply

The main lead must be plugged into an appropriate socket.

Note Before plugging your system into a main socket, you must check the voltage.

1 Plug the main lead (marked **AC Cord** on the rear of the system) into an appropriate socket.

2 Press the **Standby/On** button to switch your Mini Component System on.



Inserting Remote Control Batteries

Insert or replace remote control batteries when you:

- Purchase the Mini Component System
- Find that the remote control is no longer operating correctly

Note When replacing the batteries, use a new set of batteries and never mix alkaline and manganese batteries.

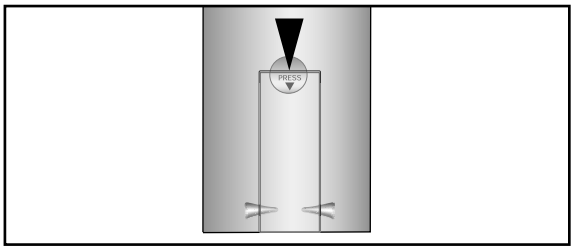
1 Place your thumb on the position marked PRESS ▼ on the battery compartment cover (rear of the remote control) and push the cover in the direction of the arrow.

2 Insert two AAA, LR03 or equivalent batteries, taking care to respect the polarities:

- + on the battery against + in the battery compartment
- – on the battery against – in the battery compartment

3 Replace the cover by sliding it back until it clicks into position.

Note If you will not be using the remote control for a long time, remove the batteries to prevent corrosion.



Connecting the Loudspeakers

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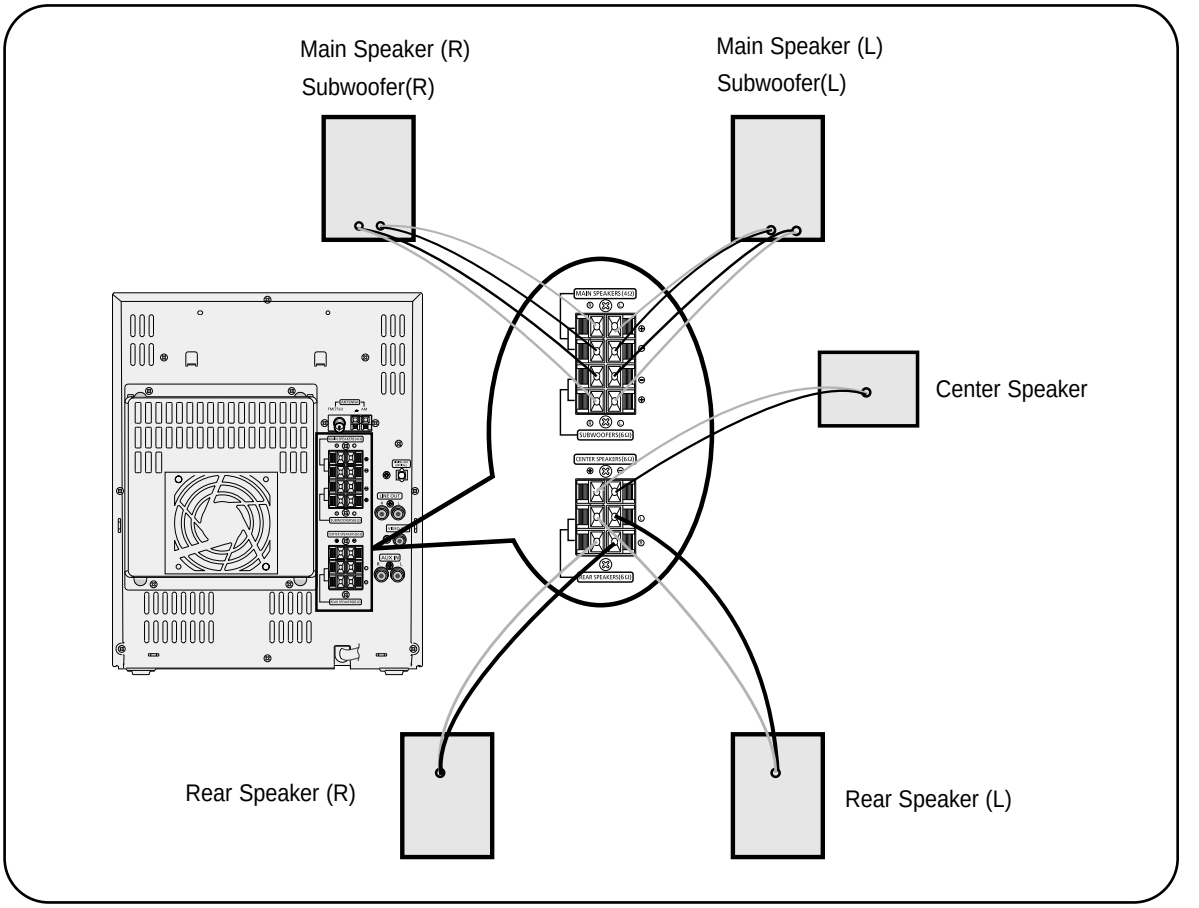

7 couples of speaker connector terminals are located on the rear of the system.

To achieve the correct sound quality, connect the:

- Red wire to the + terminals
- Black wire to the – terminals
- Blue wire to the + terminals

1 To connect a wire to a terminal, push the tab as far as it will go:
   - To the right on the system

2 Insert the wire, up to the plastic sheathing, in the hole.

3 Push the tab back:
   - To the left on the system, until it clicks into place
   - To the top on the loudspeaker

   Result: The wire is pinched and held firmly in place.

4 Repeat the operation for each wire.

Connection of the TV monitor

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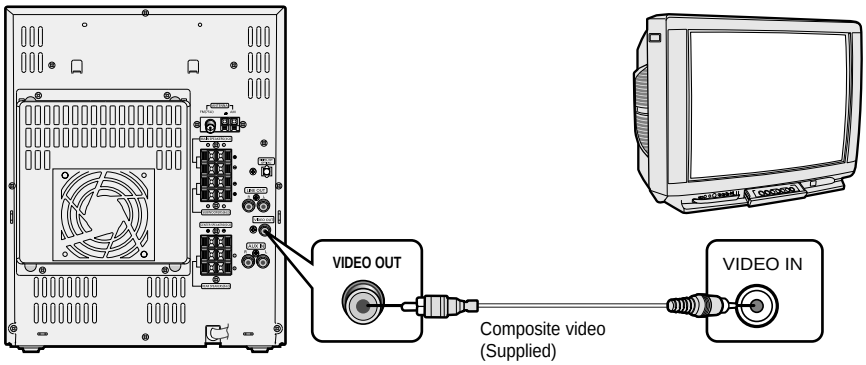
The following show examples of connections commonly used to connect the DVD player with a External Source.

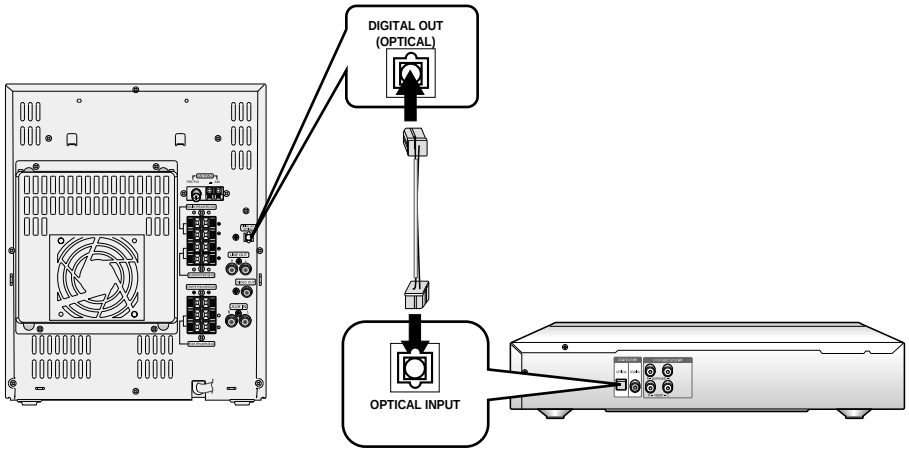


Connection for better sound

♦ Connecting to an amplifier with Dolby Pro Logic support.

What is Dolby Pro Logic?
Using five speakers, it recreates the original sound of the music or audio and provides the sense of presence, as if you were in a movie theater or concert hall.

♦ When playing a DTS disc, no sound is produced. In such case, use an amplifier equipped with a DTS decoder.



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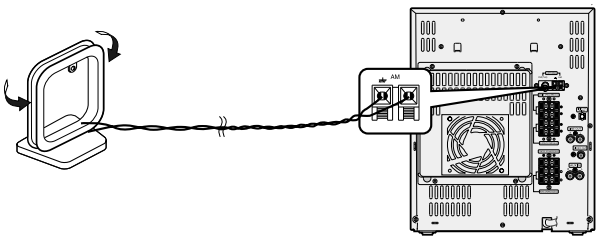
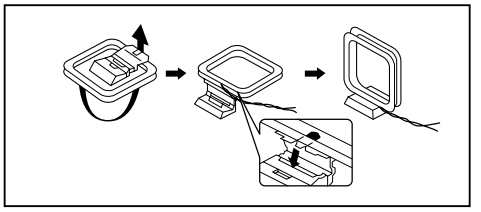
Connecting the AM(MW/LW) Aerial

The AM(MW)/LW aerial (for long and medium waves) can be:

- Placed on a stable surface
- Fixed to the wall (you must first remove the base)
  The **AM(MW)/LW** aerial connector terminals are located on the rear of the system and are marked **AM(MW)/LW**.

Note To avoid noise interference, check that the loudspeaker wires do not run close to the aerial wires.
Always keep them at least 2 inches (5 cm) away.

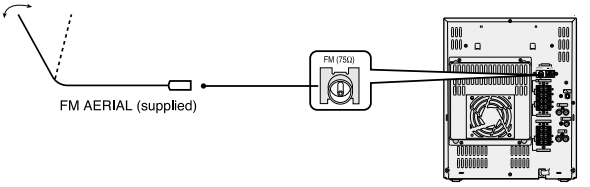


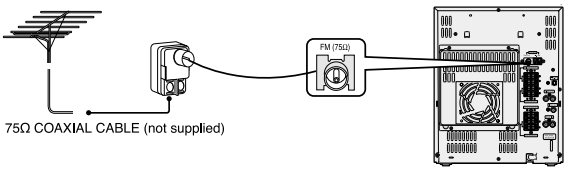


Connecting the FM Aerial

How to connect a COAXIAL TYPE aerial.

- Connect a 75Ω antenna to the **FM** antenna terminal.
- Plug the connector on the **FM** aerial supplied into the coaxial socket (75Ω) marked **FM** on the rear of the system.
- Follow the instructions given on Page 28 to tune into a radio station, and determine the best position for the aerial.
- If reception is poor, you may need to install an outdoor aerial.
  To do so, connect an outdoor **FM** aerial to the **FM** socket on the rear of the system using a 75Ω coaxial cable (not supplied).





Connecting to an External Source

The auxiliary input can be used to take advantage of the sound quality of your Mini Component System when listening to other sources.

Examples:
- A television
- A video disc player
- A Hi-Fi stereo video cassette recorder

Note To connect the external source, the source must have an audio output. In addition, you need an RCA connection cable.

1 Set the system to standby mode and disconnect it and the external source from the main.

2 Connect the audio cable to the rear of the Mini Component System.

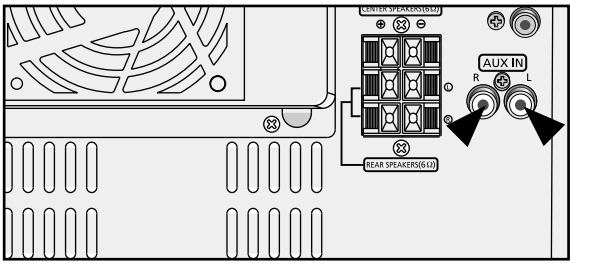
Connect the...	To the connector marked...
Red jack	R (right)
White jack	L (left)

Note For optimum sound quality, do not invert the right and left channels.

3 Plug the system back into the main socket and press **Standby/On** to switch it on.

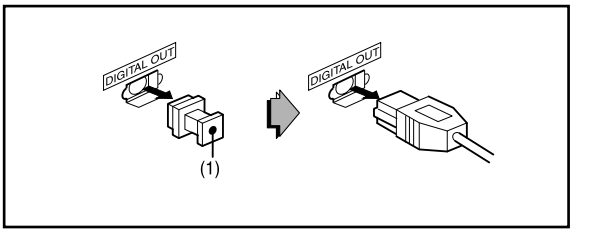
4 Select the AUX source by pressing **AUX**.
Result: **AUX** is displayed.

5 Switch the external source on.



CD Digital Out Jack

This unit can output digital sound signals through this jack. Use an optical cable to connect digital audio equipment. (DAT deck, MD recorder, etc.).
Remove the dust cap (1) from the DIGITAL OUT jack. Then, connect an optical cable plug to the DIGITAL OUT jack.



When the DIGITAL OUT jack is not being used
Attach the supplied dust cap.

Demo/Dimmer function

All functions available on the system can be viewed on the display and the display's brightness can be switched between "on" and "off".

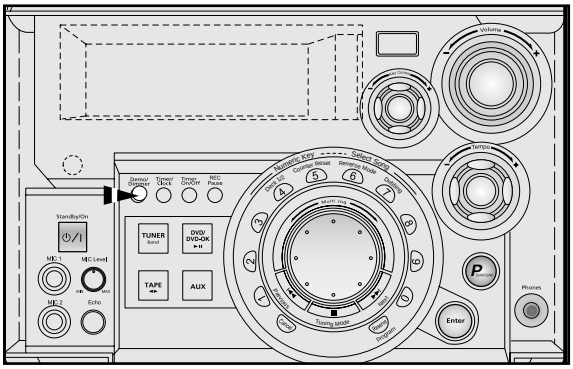
1 Press the **Demo/Dimmer** button.
Result: All functions available on the system appear on the front panel display.

Note Each of these are explained in detail in this guide. Please refer to the relevant section.

2 Press the **Demo/Dimmer** button again.
Result: The Dimmer function is selected and the display darkens.

3 Press the **Demo/Dimmer** button once again to brighten the front panel display.

Note A display brightness control can only be performed while the system power is on.



Setting the Clock

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Your system is equipped with a clock which allows you to turn your system on and off automatically. You should set the clock:

- When you first purchase the Mini Component System
- After a power failure
- After unplugging the unit

Note ♦ For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

1 Switch the system on by pressing **Standby/On** button.

2 Press the **Timer/Clock** button twice.
Result: **CLOCK** is displayed.

3 Press the **Enter** button.
Result: The hour flashes.

4

To...	Turn the Multi Jog knob to the...
Increase the hours	Right
Decrease the hours	Left

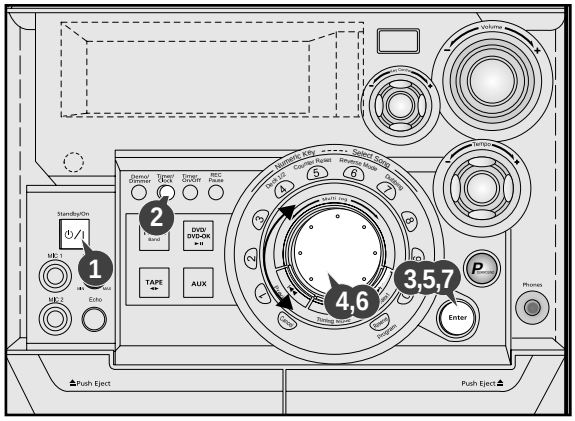
5 When the correct hour is displayed, press the **Enter** button.
Result: The minutes flash.

6

To...	Turn the Multi Jog knob to the...
Increase the minutes	Right
Decrease the minutes	Left

7 When the correct time is displayed, press the **Enter** button.
Result: The clock starts and is displayed, even when the system is in standby mode.

Note
- ♦ You can display the time, even when you are using another function, by pressing Timer/Clock button once.
- ♦ You can also use ⏮ ⏭ buttons to instead Multi Jog knob in step 4, 6.



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Loading and Changing Discs

The disc changer can contain up to three 12 cm or 8 cm discs without using an adapter.

Note Never force the disc carrousel when opening and closing the compartment.

Never press down or place objects on the carrousel.

Note Always treat your discs with care; refer, if necessary, to the section entitled "**Precautions When Using Discs**" on page 35.

1 Switch the system on by pressing **Standby/On** button.

2 Press the **Open/Close**(▲) button on the front panel.
Result: The compartment opens.

3 Place one or two discs in the front slots of the carrousel, with the label on the discs facing upwards.
Note Check that the disc has been correctly inserted in the holder before closing the compartment.

4 If you wish to load a third compact disc, press the **Disc Change** button on the front panel .
Result: The carrousel rotates by 120°.

5 Close the compartment by pressing the **Open/Close**(▲) button again.
Note If you wish to start playing a disc directly, you can also proceed as follows.

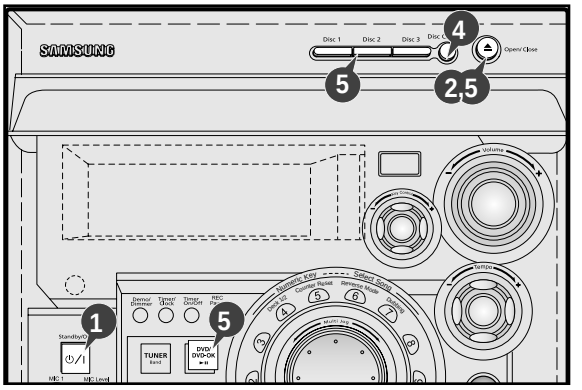
To play...	Press...
Disc 1	DVD/DVD-OK(▶II) or Disc 1
Disc 2	Disc 2
Disc 3	Disc 3

Result: The compartment closes automatically and the disc selected starts playing.

6 To change or unload the compact disc changer, repeat Steps **2** to **5**.

Note Keep the compartment closed whenever you are not using it, to prevent dust from entering.

Note You can load or unload compact discs when the radio, tape or auxiliary source function is selected.



When playing a CD-R or CD-RW

User-edited CD-Rs (Recordable) and CD-RWs (Rewritable) can be played back only if they are already "finalized".

- You can play back your original CD-Rs or CD-RWs recorded in music CD format. (However, they may not be played back depending on their characteristics or recording conditions.)
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, damage or stain on them, or if the player's lens is dirty.
- CD-RWs may require a longer readout time. (This is caused by the fact that the reflectance of CD-RWs is lower than for regular CDs.)

Listening to a Disc

This unit has been designed to playback the CDs: Audio CD, Video CD,DVD,DVD Karaoke,MP3-CD.
When you have loaded at least one disc into the player, you can start listening to it.
Continued use of irregular shape discs (heart-shape, octagonal, etc.) can damage the unit.

1 Switch the system on by pressing **Standby/On** button.

2 Select the DVD/CD function by pressing **DVD/DVD-OK** (▶II) button on the front panel.

3 Load one or more discs.

4 Press the **DVD/DVD-OK** (▶II) button on the front panel or Play/Pause(▶II) button on the remote control.

Note If you have loaded more than one disc, they will be played in turn.

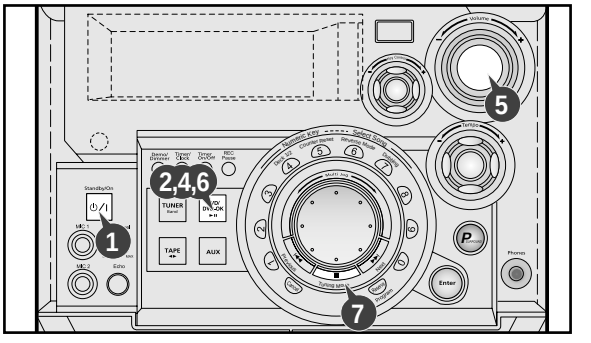
5 Adjust the volume as required by:
- Turning the **Volume +** or **-** knob on the front panel
  or
- Pressing the **Volume +** or **-** buttons on the remote control

6 To pause temporarily during playback, press the DVD/DVD-OK (▶II) button.

Note Press the **DVD/DVD-OK** (▶II) button again to continue disc playback.

7 Press the **Stop**(■) button when you have finished.

- When playing a disc, you can load new discs without stopping the current one. To do so, open the compartment by pressing Disc Change button and load new discs in the other two vacant slots (not the one containing the disc that you are playing). You cannot rotate the carrousel during playback.
- When no discs are loaded, the **"NO DISC"** indication is displayed.
- The DVD player stops automatically after playing the three discs, if the DVD REPEAT function has not been selected.



TO replay the MP3-CD

The track of the MP3-CD desired to listen may be selected on stopping or during playbacks.

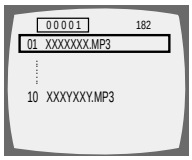
1 Switch the system on by pressing **Standby/On** button.

2 Select the MP3 function by pressing **DVD/DVD-OK** (▶II) button on the front panel.

3 Load one or more MP3-CDs.

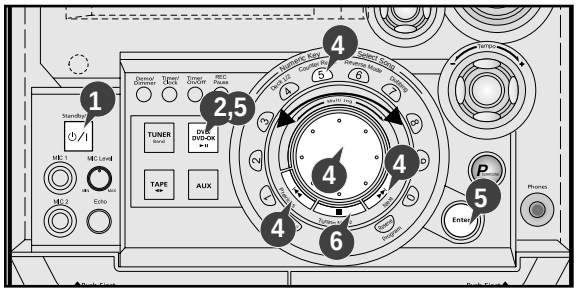
4 Press the ⏮ / ⏭ buttons or the number buttons or turn Multi Jog knob to select the track.

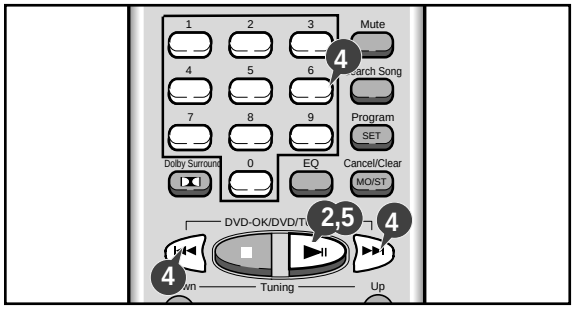
Note Every time 10 tracks are displayed on the screen in the stop mode.



5 Press the (▶II) button or **Enter** button to playback.

6 Press the **Stop**(■) button to stop playback.





What is MP3?

MP3 means MPEG1 Layer 3, the global standard for audio signal compression technology. It uses digital compression technology to compress original sound data by up to 12 times without sound quality degradation.

File Compatibility

- The unit will playback files created in MP3 format (Mpeg1.Layer3) with *.mp3 as their extension.
- Files created in MP2 format (Mpeg1.Layer2) with *.mp2 as their extension can also be played back.

How many MP3 files can a CD-R or CD-RW disc record?

The maximum capacity of one CD-R or CD-RW disc is 680MB.

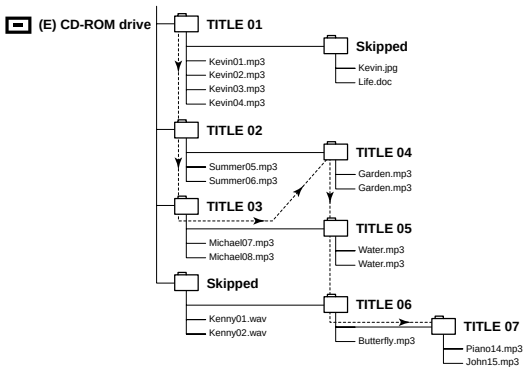
Normally, one MP3 file has a capacity of 4MB, therefore approximately 170 files can be recorded on a single disc.

Regarding the playback of CD-R/RW

- In the case of an original CD-R(Recordable) recorded in audio CD format, CD-RW(Rewritable) and editing by the user, playback is processed on the respective completed status. (The player may not be played back according to the characteristics of the CD or recorded status.)
- The CD-RW is comparably less reflexive than CD which causes more time delay to read.

Playback sequence of titles and tracks

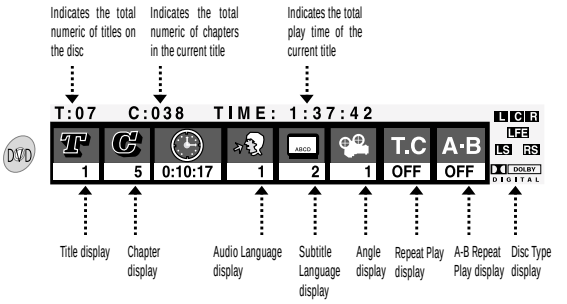
- In case of Window Explorer display.
- The arrows indicates playback sequence of titles and tracks.
- Tracks with jpg, wav or doc only are not audio files and therefore will be skipped.

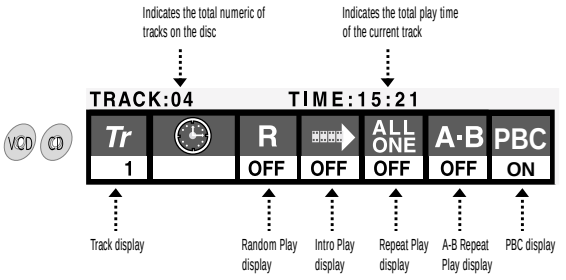


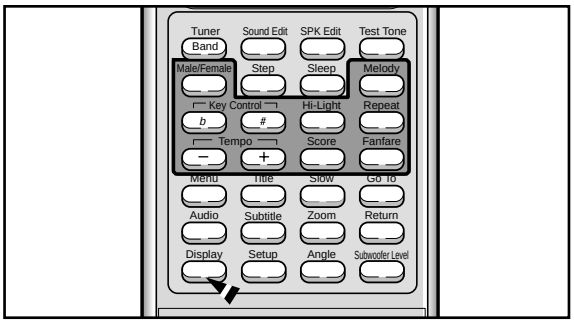
GB

Checking the Screen Display

Press the Display button.







What is a Title?

- A title refers to a single whole movie.

What is a Chapter?

- A chapter is one of the several sections to which a movie is divided into.

To Mute the Sound

- During playback, press the Mute button.
- This is useful when answering a doorbell or telephone call.

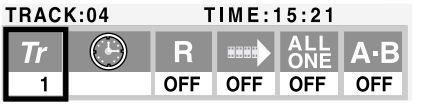
Note
- After 3 minutes in Pause mode, your player will automatically go into Pre-Stop mode.

Intro Play

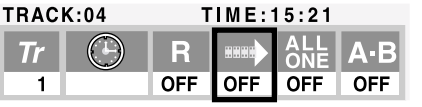
You can play the first 10 seconds of each track.

VCD CD

1 Press the Display button

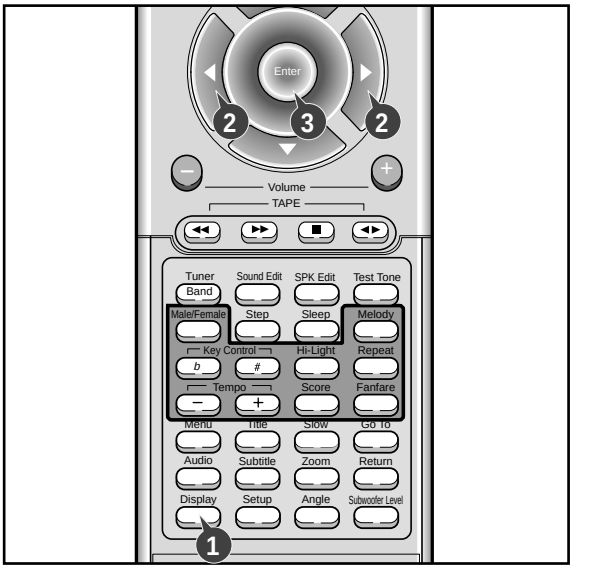


2 Use ◀ ▶ buttons to move to the Intro Play display.



3 Press the Enter button.

- Each time the button is pressed, the display will alternate between ON and OFF.
- Select ON to play the first 10 seconds of each track.

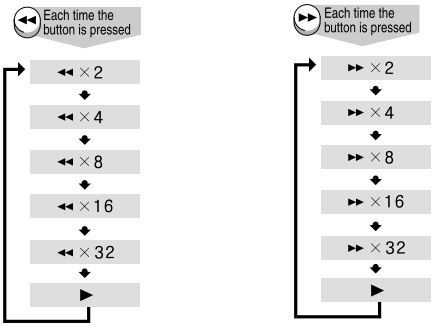


Fast Play

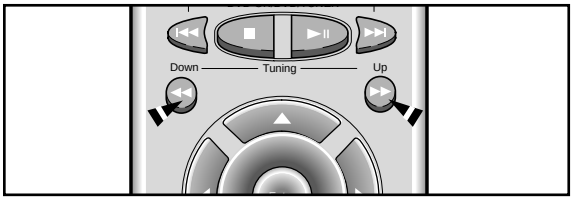
During playback, you can quickly move to the desired scene or song.

DVD VCD

Use ◀◀ / ▶▶ buttons.



Note
- During fast play or step motion, sound will not be normal.
- When playing a CD, you can only use 2x and 8x speeds.

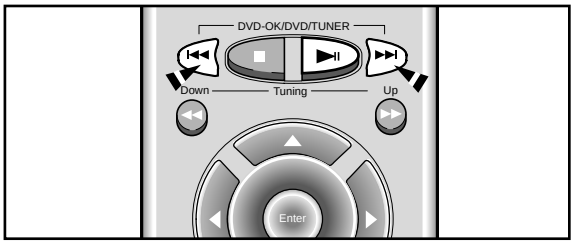


Skipping Chapters or Tracks

Use ⏮ / ⏭ buttons on the remote control or rotate the Multi Jog Knob on the main unit.

- Each time either button is pressed, playback starts from the beginning of the previous or next chapter (or track).
- But, you cannot skip chapters consecutively.

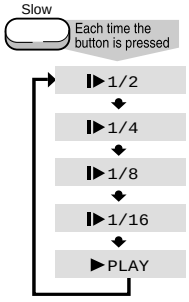
To play from the beginning of...	Rotate the Multi Jog knob...
Next track	one notch to the right
Current track	one notch to the left
Previous track	two notches to the left
Track of your choice	as many notches to the left or right as needed

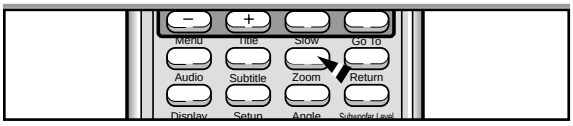


Slow Play/Playing Frame by Frame

DVD VCD

Press the Slow button.





Playing Frame by Frame

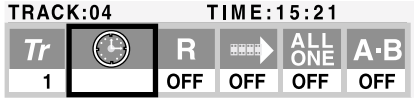
Press the Step button.

- The picture moves forward one frame each time the button is pressed.

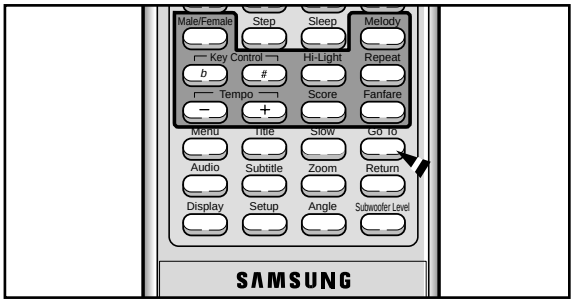
Note
- No sound is heard during high-speed playback and step motion.

Directly Moving to a Title/ Chapter/Time

1 Press the **Go To** button.
- The corresponding display will be selected.



2 Use the **Numeric** buttons (0-9) to select the desired scene and then press the **Enter** button.
- Playback of the selected scene starts. Depending on the disc, moving to a title may not work.

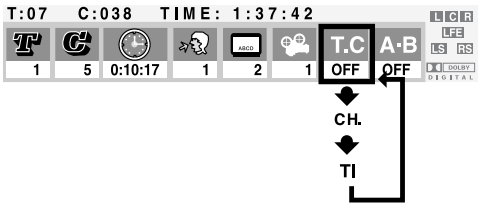


GB

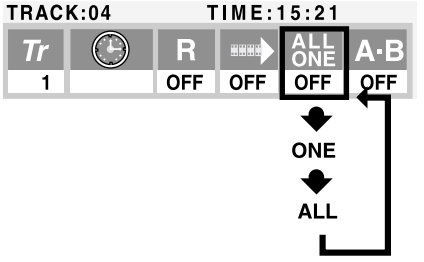
Repeat Play

Press the Repeat button.

DVD



VCD CD

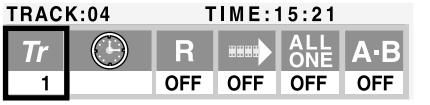


Note ♦ Repeat Play operation is not possible with version 2.0 VCD discs if PBC is turned on. To use this feature, press the Menu button to select "PBC OFF".

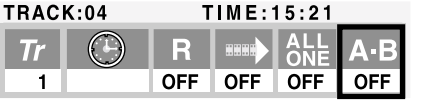
A-B Repeat Play

DVD VCD CD

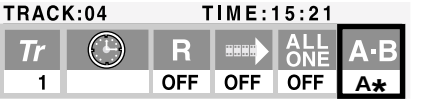
1 Press the Display button.



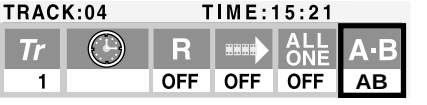
2 Use ◀ ▶ buttons to move to the A-B Repeat Play display.



3 Press the Enter button at the beginning of the segment (point A) you want to play repeatedly.

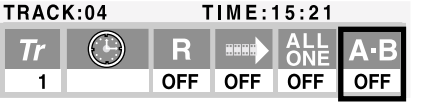


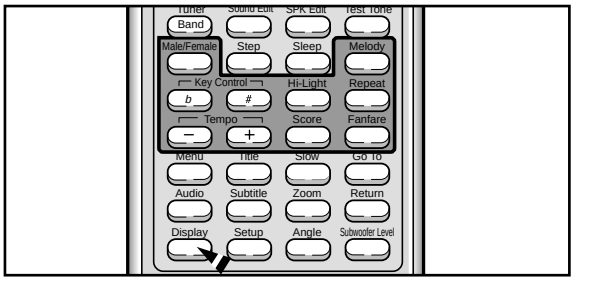
4 Press the Enter button at the end of the segment (point B).
♦ The specified segment will be played repeatedly.



To Cancel A-B Repeat Play

Press the Enter button again.



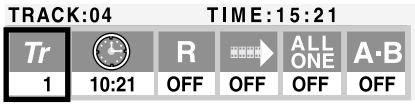


Random Play

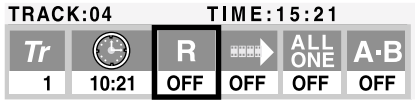
You can play scenes/songs in random order.

VCD CD

1 Press the Display button.

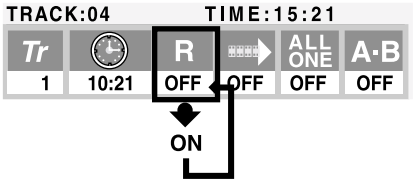


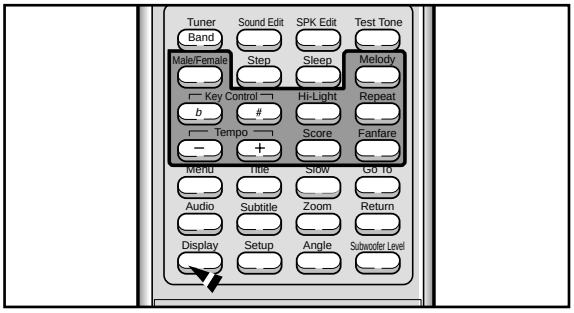
2 Use ◀ ▶ buttons to move to the Random Play display.



3 Press the Enter button.

- Each time the button is pressed, the display will alternate between ON and OFF.
- Select ON to start Random Play.





Using the Menu on the Disc

You can use the menu for the audio language, subtitle language, profile, etc. DVD menu contents differ from disc to disc.

DVD

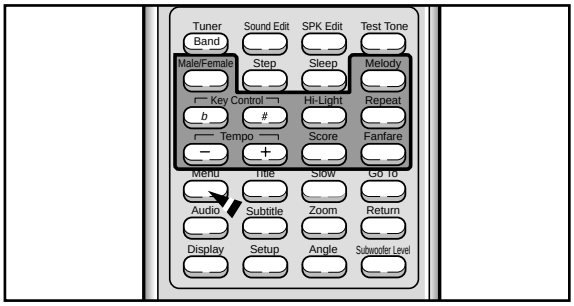
1 During playback, press the Menu button.

- The menu screen appears .
  When playing a VCD (version 2.0), this toggles between PBC ON and OFF.

2 Use ◀ ▶ ▲ ▼ buttons to select the desired item.

3 Press the Enter button.

- The selected item will be played.



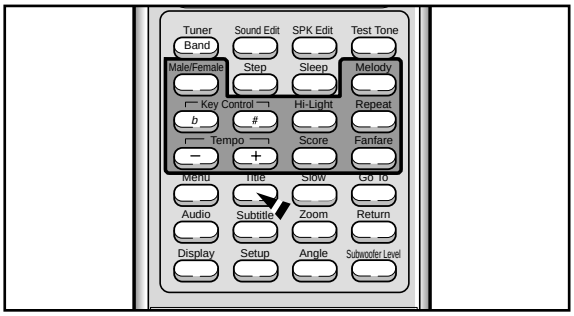
To Use the Title Menu

For DVDs containing multiple titles, you can view the title of each movie.

DVD

During playback, press the Title button.

Note Depending on the disc, this function may either not work at all or may work differently.



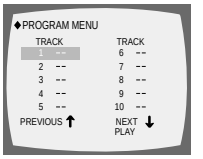
Program Function

GB

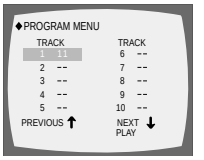
You can watch movies or listen to songs in the desired order.

VCD CD

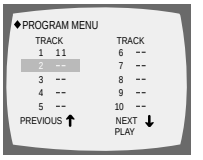
1 In Stop mode, press the Program/SET button.



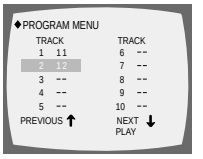
2 Use the Numeric buttons (0-9) to select the track numeric you want to program and then press the Enter button.



3 Press ▼ button to move to the next numeric.

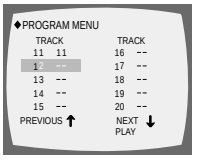


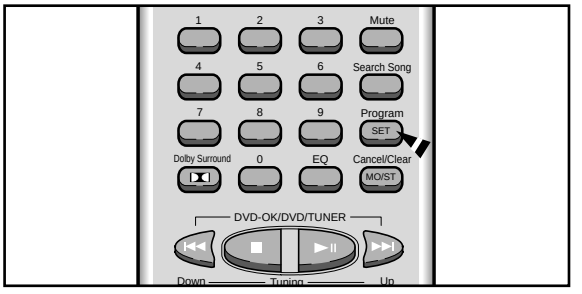
4 Use the Numeric buttons (0-9) to select the track numeric you want to program and then press the Enter button.



5 Repeat steps 3 to 4 to continue to program the tracks .

- To program more than 10 tracks, press the Enter button while NEXT↓ is selected. A screen appears, allowing you to program 10 more tracks from 11 to 20.





To Play the Program

- Press the Play/Pause(▶II) button.

To Cancel During the Programmed Play

- In the stop mode,press the Program/SET button or the Stop button.

Program Function (Continued)

To Change the Program Order

1 Use ▲ ▼ buttons to select the track numeric you want to change.

2 Press the Numeric buttons (0-9) and then press the Enter button.

3 Repeat step 1 to 2 above to change the program order.

To Cancel the Program

- During playback, press the Stop(■) button twice.
- In Stop mode, press the Stop(■) button once.
- The entire program will be cleared if you press the Open/Close (▲)button on the front panel to open and then close the tray.

To Clear Incorrectly Entered Numeric

Press the Cancel/Clear button.

- To clear tracks from the program, select the tracks you want to clear and then press the Cancel/Clear button.

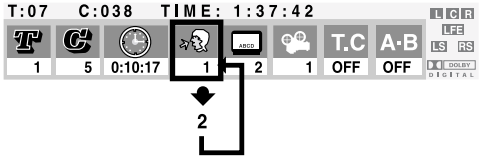
Note ◆ The program function does not work with DVD discs.

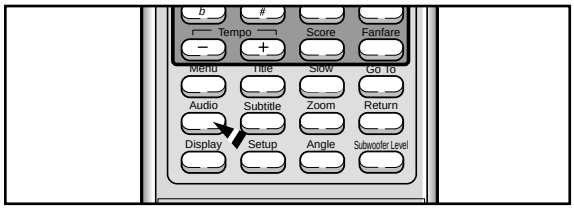
Audio Language

DVD

1 Press the Audio button.

2 Use ▲ ▼ buttons to select the desired audio language.
- Depending on the numeric of languages on a DVD disc, a different audio language (KOREAN, ENGLISH, JAPANESE, etc.) can be selected.





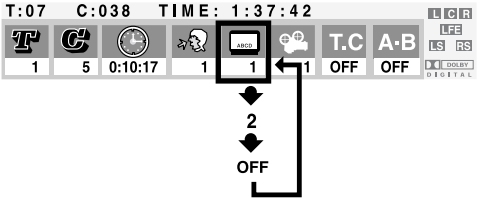
Note
- Depending on the disc, you can also select DTS or DOLBY PRO LOGIC.
- To listen to DTS audio tracks, connect an amplifier with a built-in DTS decoder to the Optical Out.

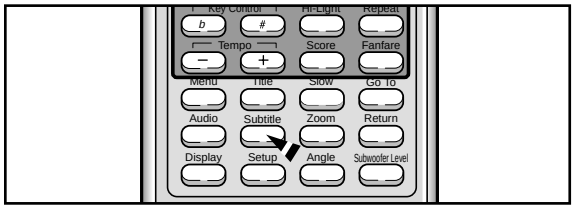
Subtitle Language

DVD

1 Press the Subtitle button.

2 Use ▲ ▼ buttons to select the desired subtitle.
- Depending on the numeric of subtitles on a DVD disc, a different subtitle (KOREAN, ENGLISH, JAPANESE, etc.) can be selected. Select OFF to make the subtitles disappear.



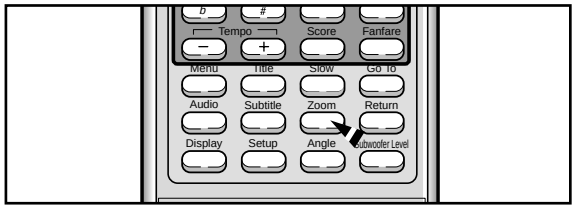


Note
- ⊘appears on the TV screen!
  If this symbol appears on the TV screen while buttons are being operated, that operation is not possible with the disc currently being played.
- Depending on the disc, the Subtitle and Audio Language functions may not work.

Screen Zoom

DVD VCD

Press the Zoom button.
- Each time the Zoom button is pressed, the zoom function will switch On/Off.

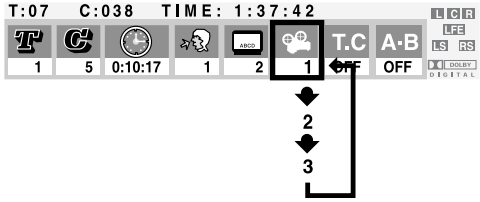


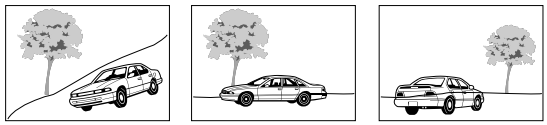
Angle

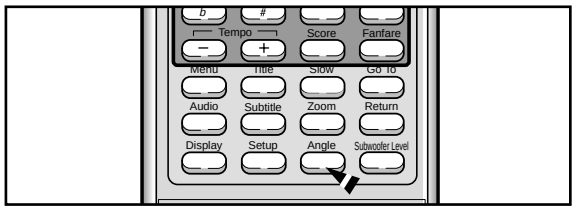
DVD

1 Press the Angle button
- The multiple angle function only works with discs on which multiple angles are recorded

2 Use ▲ ▼ buttons to select the desired angle
- The selection changes as follows: 1/3 --> 2/3 --> 3/3 --> Normal





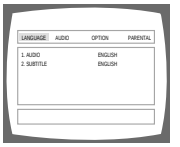


Language Setup

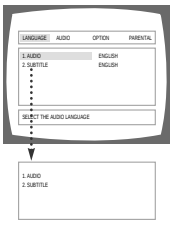
GB

You can set up the screen display, audio language, subtitle language, and menu language by using the Mini Component System player's Setup feature.

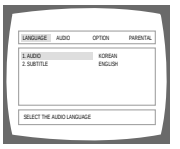
1 In Stop mode, press the Setup button.



2 Use ▲ ▼ buttons to move to a submenu.

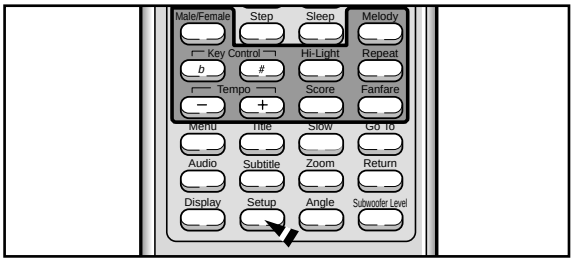


3 Press ▶ button to select the desired language.



To End the Language Setup

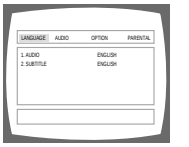
Press the Setup button again



Audio Setup

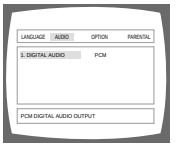
You can set the condition for the output to the Optical Digital Out Jack.

1 In Stop mode, press the Setup button.

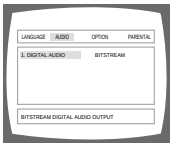


2 Press ◀ ▶ buttons to select "AUDIO".

3 Use ▲ ▼ buttons to move to a submenu.



4 Press ▶ button to select the desired item.



DIGITAL AUDIO

BITSTREAM

Select this if you have Dolby Digital 5.1 Channel connection

- Transmits digital signal carrying Dolby Digital 5.1 or DTS multi-channel information to the external decoder

LPCM

Select this if you do not have Dolby Digital 5.1 Channel connection

- Transmits Linear PCM (Pulse Code Modulation) or 2-Channel Stereo Signal to the A/V receiver

Note ♦ Press Return or Setup button again to exit Menu setup.

Options Setup

You can set the TV aspect ratio and video format.

1 In Stop mode, press the Setup button.

2 Press ◀ ▶ button to select "OPTION".

3 Use ▲ ▼ buttons to move to a submenu.

4 Press ▶ button to select the desired item.

TV

Select this to view 16:9 ratio movies on a 4:3 ratio TV.

4:3LB	Select this to play wide DVDs in the letter box mode with black strips at the top and bottom.
4:3PS	Select this to play wide DVDs in the pan and scan mode with the sides of the picture cut off.
WIDE	Select this to play wide DVDs in the full-screen mode with the top and bottom of the screen cut off.

♦ However, you cannot view in the full-screen mode if the movie on a disc is in 4:3 ratio.

VIDEO MODE

♦ Each country has a different video format standard .

♦ For normal playback, the video format of the disc must be the same as the video format of your TV .

For example, you will not be able to play a PAL encoded disc on an NTSC TV.

Rating Level/Password Setup

Use this to restrict playback of adult or violent DVDs you do not want children to view.

1 In Stop mode, press the Setup button.

2 Use ◀ ▶ buttons to select "PARENTAL".

3 Use ▲ ▼ buttons to move to a submenu.

4 Use the Numeric buttons (0-9) to enter the password.

♦ By default, the password is set to "7890".

Password Setup

1. Press ▼ button to move to "NEW PASSWORD" and then use the Numeric buttons (0-9) to enter a new password.

2. Press ▼ button to move to "CONFIRM PASSWORD" and then use re-enter your new password.

5 Use ▼ button to move to "RATING LEVEL".

6 Press ▼ button to select the desired rating level.

♦ Rating Level can be set between 0 and 8 levels.

♦ If you have selected Level 6, you cannot view DVDs with Level 7 or higher.

If you have forgotten your password

While the player is in NO DISC mode, hold the main unit's Stop(■) button for longer than 5 seconds.

♦ "INITIAL" appears on the display and all settings will return to the default values.

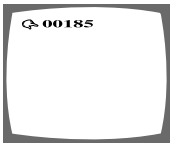
Note ♦ Press Return or Setup button again to exit Menu setup.

GB

Playing DVD-OK Discs

You can enjoy the feeling of a karaoke bar in the comfort of your home. Watch the video and sing along the lyrics displayed on the TV screen against the accompaniment.

1 Use the Numeric buttons (0-9) to enter the numeric of the song you want to play.



2 Press the Play/Pause(▶▮) button or the Enter button.

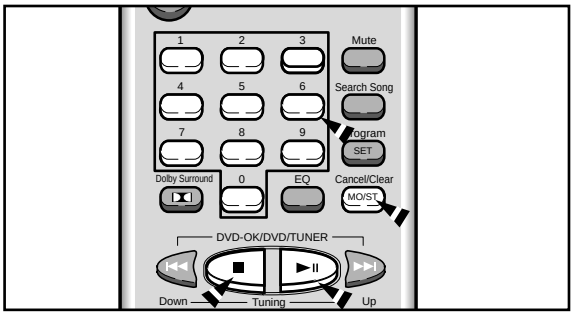
- The numeric and title of the song will be displayed and the accompaniment starts.

To Clear Incorrectly Entered Song Numeric

- Press the Cancel/Clear button.

To Stop During Accompaniment

- Press the Stop button.



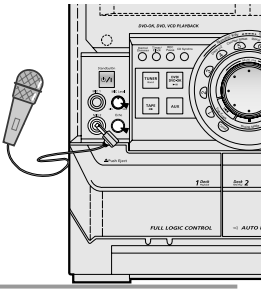
Connecting Microphone

1 Connect the microphone to the MIC jack on the front panel.

- You can connect up to two microphones.

2 Turn the Mic Level to adjust the volume.

3 Press the Echo button turn the echo ON or OFF.



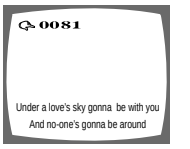
Reserving Accompaniment Music

While the accompaniment is playing, you can reserve the next song you want to sing.

1 Use the Numeric buttons (0-9) to enter the numeric of the song you want to reserve.

2 Press the Program/SET button.

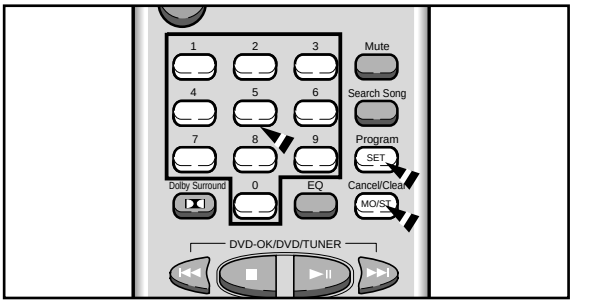
- The next song is reserved.



To Cancel the Reservation

1 Enter the numeric of the song you have reserved.

2 Press the Cancel/Clear button.



Priority Playing Accompaniment Music

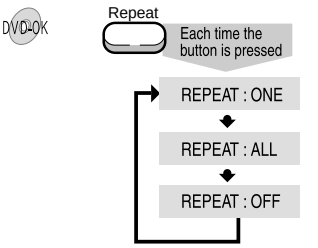
Even if there is a song already reserved, you can have the song you want to sing to be played first.

1 Use the Numeric buttons (0-9) to enter the numeric of the song you want to reserve.

2 Press the Play/Pause(▶II) button.

DVD-OK Repeat Play

Press the Repeat button.



Search Song Function

You can easily do song search on screen without viewing the song list book.

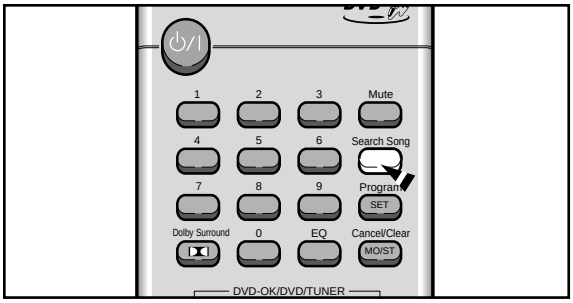
DVD-OK

1 Press the Search Song button.

2 Press ▲ ▼ buttons to select the desired item and then press the Enter button.

3 Press ▲ ▼ buttons to select the desired song and then press the Enter button.
- The number and title of the song will be displayed and the accompaniment starts.

Note ♦ Press Search song button to return to the previous level.



Key Control

Use the Key Control buttons.
- Each time # button is pressed, the key is increased, and each time b button is pressed, the key is decreased .

Tempo Control

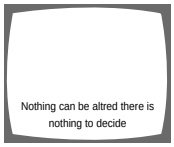
Use the Tempo buttons.
- Each time + button is pressed, the tempo gets faster, and each time - button is pressed the tempo gets slower.

Highlight Lyrics

Press the High-Light button.
- A black bar appears by the lyrics area.

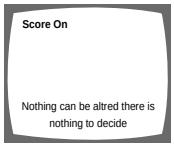
Male-Female Key Control

Press the Male/Female button
- Each time the button is pressed, this selection alternates between Male and Female
- Select Male when singing in male voice and select Female when singing in female voice



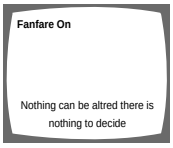
View Score

Press the Score button.
- Each time the button is pressed, the selection alternates between Score ON and Score OFF .
- Select Score ON to display the score of your singing.



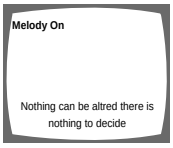
Fanfare Function

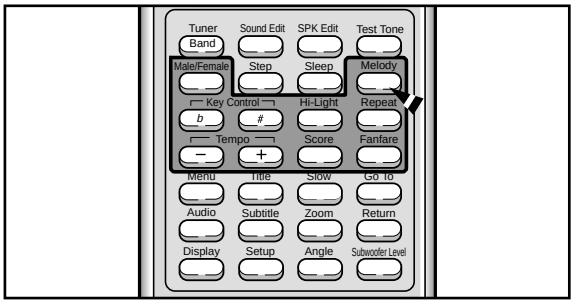
Press the Fanfare button.
- Each time the button is pressed, the selection alternates between Fanfare ON and Fanfare OFF .
- Select Fanfare ON to hear the fanfare after the singing is over.



Melody Function

Press the Melody button.
- Each time the button is pressed, this selection alternates between Melody ON and Melody OFF.
- Select Melody ON to hear to the melody during accompaniment.





Dolby Surround

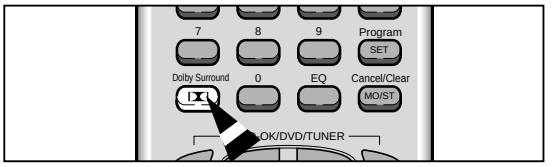
GB

Dolby Surround modes

Note Press the **Dolby Surround** button.

- PRO-Logic is selected, and the playback sound has the Dolby Surround effect.

Note To cancel Dolby Surround mode
Press the **Dolby Surround** button repeatedly until PASS is displayed.



Note
- When playing DVD, if an Audio is Dolby Digital(multi-channel), it can not be operated.
- When being connected to headphones and microphone, this function cannot be operated.

Additional Dolby Surround modes

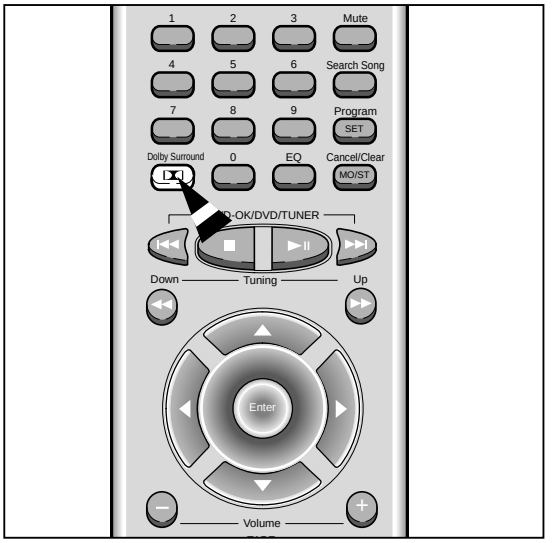
In addition to the PRO-Logic mode, this unit is also equipped with the 3 STEREO modes.

- **PRO-Logic :** Use this mode when rear speakers are connected. The center channel signals are output through the left and right speakers.

- **3 STEREO :** Use this mode when no rear speakers are connected. This mode reproduces rear sounds through the front speakers.

PRO-Logic → 3 STEREO → PASS

Note
- Depending on the sound source or listening conditions, a surround effect may not be obtained even when the Dolby Surround is on.
- The full Dolby Surround effect cannot be obtained when using software without DOLBY SURROUND PRO · LOGIC mark. In this case, use the DSP system instead.



Adjusting Speaker Level Balance

The unit is equipped with a built-in test signal generator called a noise sequencer which outputs a noise signal that 'travels' from channel to channel. This enables the simple adjustment of sound levels, to achieve, at the listening position, the same apparent loudness from each channel. Use the remote control.

1 Press the **Dolby Surround** button.
Result: "DOLBY PRO-LOGIC" appears on the displayed.

2 Press the **Test Tone** button.
- A noise signal is sent to each channel in turn in the following sequence.

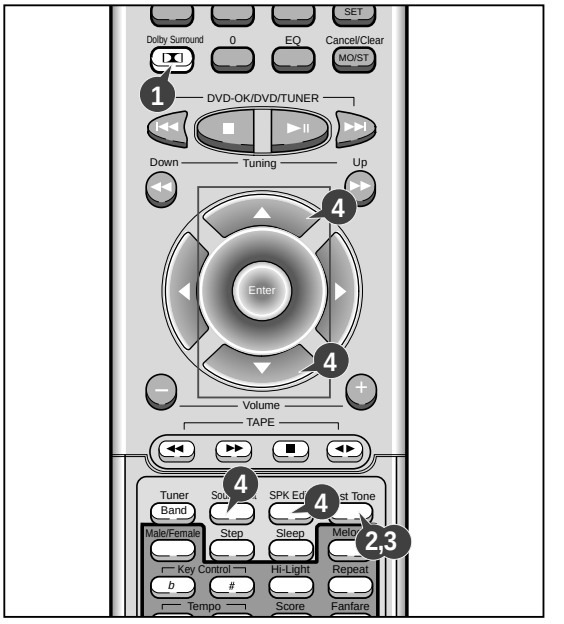
L → CNTR → R → REAR

(L : Left Speaker, CNTR : Center Speaker,
R : Right Speaker, REAR : Rear Speaker)

3 Press the **Test Tone** button again to stop the noise signal.

4 To change the sound levels or delay time after adjusting the balance with the noise sequencer.
- Press the **Sound Edit** button.
While **L, R, CNTR, REAR** is displayed, press the UP/DOWN (▲/▼) button to adjust the level:
L 0~-9,R 0~-9,CNTR -6~6,REAR -6~6.
- Press the **SPK Edit** button.
While **CNTR, REAR, DELAY TIME** is displayed, press the UP/DOWN (▲/▼) button.
  - **CNTR** : Large/Small/None
  - **REAR** : USE/None
  - **DELAY TIME** : 15/20/25/30 mS

Note When the Dolby surround system is on, this function can be operated.



Dolby Surround (Cont'd)

GB

To set the delay time

- When 5.1 Channel Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. You can set Delay Time in the Center/Rear Speaker to customize the sound to the acoustics of your room.
- Setting Center Speaker
  If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms.
  Otherwise, change the setting according to the table on the table.
- Setting Rear Speakers
  If the distance of Df is equal to the distance of Ds in the figure, set the mode as 0ms.
  Otherwise, change the setting according to the table.

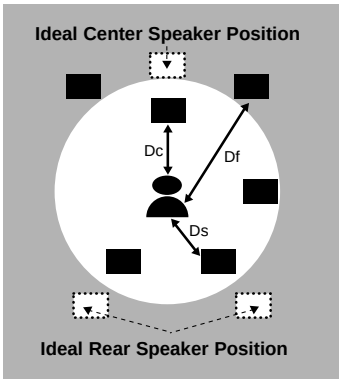
(A)=Df-Dc

Distance of (A)	Value(ms)
50	1.3
100	2.6
400	3.9
200	5.3

(B)=Df-Ds

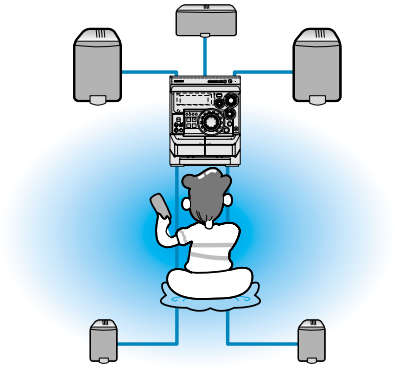
Distance of (B)	Value(ms)
200	5.3
400	10.6
600	15.9

Dc: Distance from center speaker to listening position
Df: Distance from front speakers to listening position
Ds: Distance from rear speakers to listening position



Arrange all speakers within a circle as shown in the figure.

Speaker Setting Methods



- Front/Woofer Speakers

  Set the front speakers so that their tweeters (high-range) are aligned at about ear level and at a horizontal angle of 45° to the prime listening position.

- Center Speaker

  Ideally the center speaker should be positioned with its top surface flush with the front speakers. However, you may place the speaker either on top or near the bottom of your TV set.

- Rear Speakers

  Set the rear speakers further back parallel to the walls, at 60 to 90 centimeters (2 to 3 feet) above prime listening position ear level. If the space behind the listening position is insufficient (i.e., too close to the wall), place the rear speakers facing each other on either side.

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Searching for and Storing the Radio Stations

GB

You can store up to:

- 15 FM stations
- 8 AM(MW) stations
- 7 LW stations

1 Switch the system on by pressing **Standby/On** button.

2 Select the TUNER function by pressing **TUNER Band** button.

3 Select the required frequency band by pressing **TUNER Band** button again on the front panel or **TUNER Band** button on the remote control.
Result: The appropriate indication is displayed:

♦ **FM**	Frequency Modulation
♦ **AM(MW)**	Medium Wave
♦ **LW**	Long Wave

4

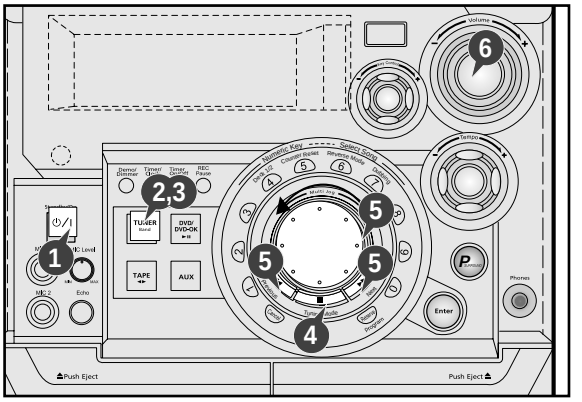
To search for a station...	Press Tuning Mode
Manually	One or more times until **MANUAL** is displayed.
Automatically	One or more times until **AUTO** is displayed.

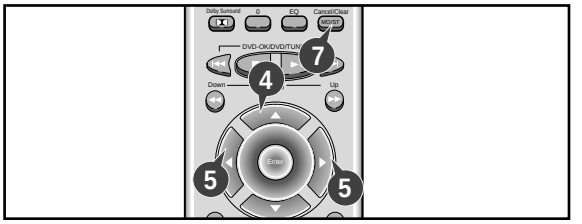
5 Select the station to be stored by:
- Turning the **Multi Jog** knob to the right or to the left to increase or decrease the frequency respectively.
  or
- Press the **Tuning** ◀◀ or ▶▶ button on the remote control.

- To scroll through the frequencies faster when searching manually, hold down the **Tuning Down** or **Up** buttons.
- The automatic search procedure may stop on a frequency that does not correspond to a radio station. If this happens, use the manual search mode.

6 Adjust the volume by:
- Turning the **Volume +** or **–** knob on the front panel.
  or
- Pressing the **Volume +** or **–** buttons on the remote control.

7 Select the FM stereo or mono mode by pressing **MO/ST** button.





Searching for and Storing the Radio Stations (continued)

8 If you do not want to store the radio station found, revert to Step **4** and search for another station.

Otherwise:

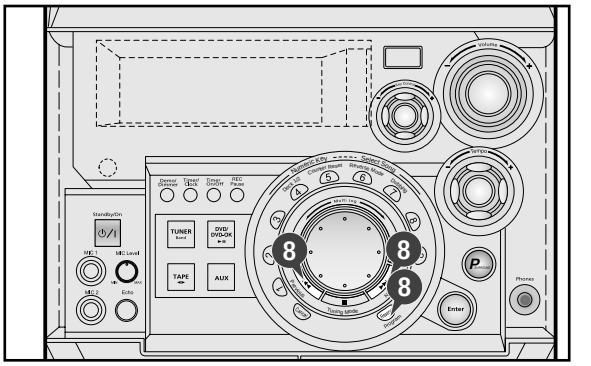
a Press the **Program** button.
Result: The **PRGM** is displayed for a few seconds.

b Press the **Tuning** ⏮ ⏭ buttons to assign a program numeric between **1** and **15**.

c Press the **Program** button to store the radio station.
Result: **PRGM** is no longer flashed and the station is stored.

9 To store any other radio frequencies required, repeat Steps **3** to **8**.

- The PROGRAM function can be used to assign a new station to an existing program numeric.
- You can also use Program/Set button on the remote control to instead Program button in step 8.



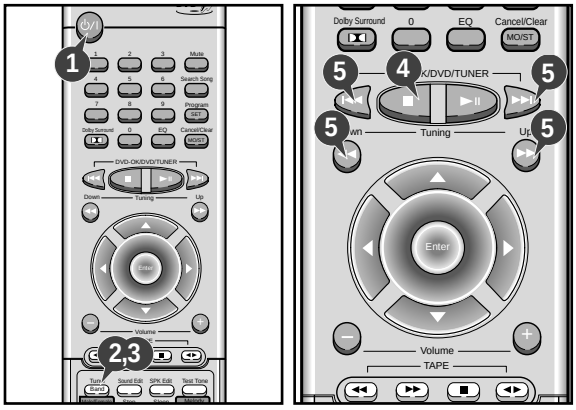
In Tuner mode

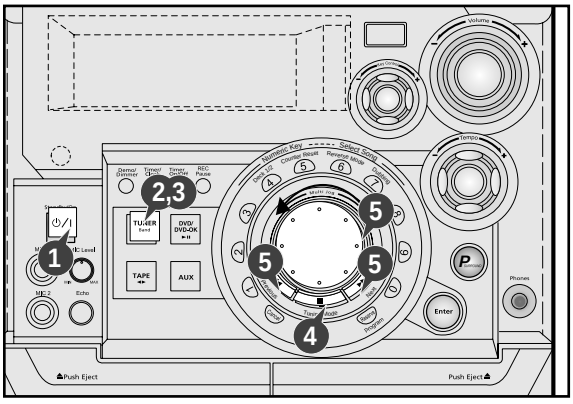
- In manual tuning mode, you can use **Multi Jog** or ⏮ / ⏭ buttons to manual search a radio station.
- During Tuner auto searching, press **Stop**(■) button to stop auto searching.
- In Preset tuning mode, you can use **Multi Jog** or ⏮ / ⏭ buttons to search a stored radio station.

Selecting a Stored Station

You can listen to a stored radio station as follows:

1. Switch the system on by pressing **Standby/On** button.
2. Select the TUNER function by pressing **TUNER Band button** on remote control.
3. Select the required frequency band by pressing **TUNER Band** button on the remote control or **TUNER Band** button again on the front panel.
4. Press the **Tuning Mode** button on the front panel of the unit until "**PRESET**" is displayed.
5. Turning **Multi jog** knob on the front panel left or right until the desired station is found or press the ⏮/⏭ button to select the desired station.
   or
   Select the desired station by pressing the station numeric stored, using the **Tuning** ◀◀ or ▶▶ button on the remote control.
   Result: The desired station is now received.



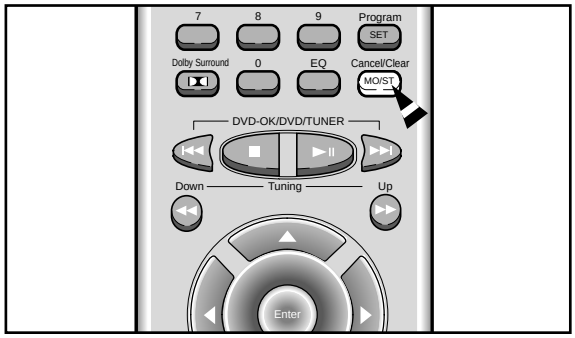


Improving Radio Reception

You can improve the quality of radio reception by:

- Testing the positions of the FM and AM(MW)/LW aerials before fixing them permanently.

Note If reception from a specific FM radio station is poor, press the **MO/ST** button to switch from stereo mode to mono. The quality of the sound will be improved.



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Listening to a Cassette

Note ♦ Always treat your cassettes with care; refer, if necessary, to the section entitled "**Precautions When Using Audio Cassettes**" on page 35.

1 Switch the system on by pressing the **Standby/On** button.

2 Select the TAPE function by pressing **TAPE** button on the front panel.

3 Open either cassette deck 1 or 2 by pushing and releasing the deck cover where **Push Eject** (⏏) is written.

4 Insert the pre-recorded cassette with the open edge of the tape facing downward.

5 Close the deck by pushing on it until it clicks into place.
Result: Depending on the deck selected, the **1** or **2** indication is displayed in front of the counter numeric.

6 If you have inserted two cassettes, press the **Deck 1/2** button on the front panel to select the cassette to be played.
Result: Depending on the deck selected, the TAPE 1 or TAPE 2 indication is displayed.

7

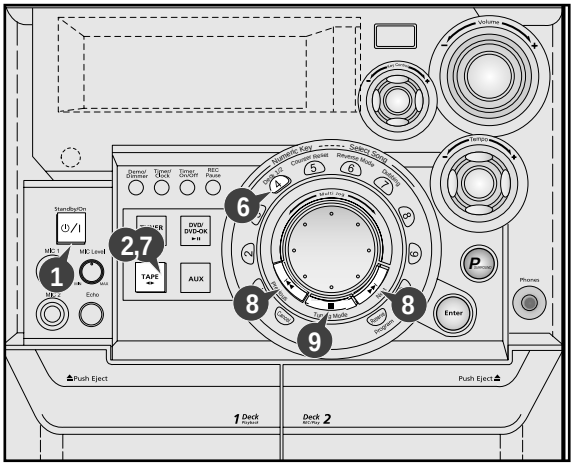
To listen to...	Press ...
Side A	TAPE (◄►) once
Side B	TAPE (◄►) twice

Result: The cassette starts playing.

8 When the cassette is stopped, select one of the following functions as required.

To...	Press ...
Rewind the cassette	⏮(◀◀)
Fast-forward the cassette	⏭(▶▶)

9 Cancel this function, press the **Stop** (■) button.



Recording a Compact Disc

The direct recording mode enables you to start recording with any track on the compact disc.

♦ You can only record on cassettes in Deck 2.
♦ You do not need to adjust the volume, as it has no effect on the recording.

1 Switch your system on by pressing **Standby/On** button.

2 Insert a blank cassette in Deck 2.

3 Select the DVD/CD function by pressing **DVD/DVD-OK(▶II)** button on the front panel.

4 Load the compact disc.

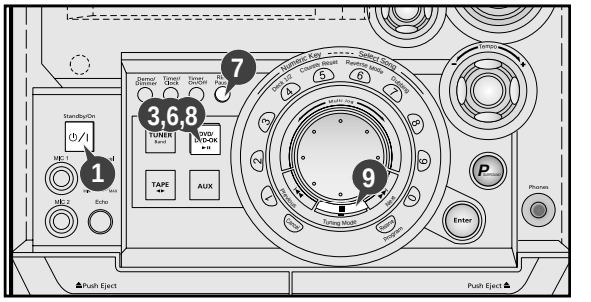
5 Select the required disc.

6 Select the required track on the compact disc and press the **DVD/DVD-OK**(▶II) button on the front panel or **Play/Pause(▶II)** button on the remote control to set the compact disc player to Pause mode.

7 Press the **REC/Pause**.
Result: **REC** is displayed.

8 Press the **DVD/DVD-OK**(▶II) to start playing the track.
Result: The track is recorded on the cassette.

9 To stop recording, press the **Stop**(■) button.

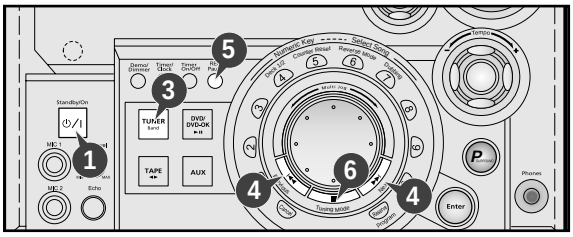


Recording a Radio Program

You can record a radio program of your choice.

- You can only record on cassettes in Deck 2.
- You do not need to adjust the volume, as it has no effect on the recording.

1. Switch the system on by pressing **Standby/On** button.
2. Insert a blank cassette in Deck 2.
3. Select the TUNER function by pressing **TUNER Band** button.
4. Select the radio station that you wish to record by pressing **Tuning** ◀◀ or ▶▶ on the remote control or by press the **Tuning Mode** or ⏮ ⏭ on the front panel.
5. Press the **REC/Pause** button.
   Result: **REC** is displayed in red and recording starts.
6. To stop recording, press the **Stop**(■) button.



Copying a Cassette (Dubbing)

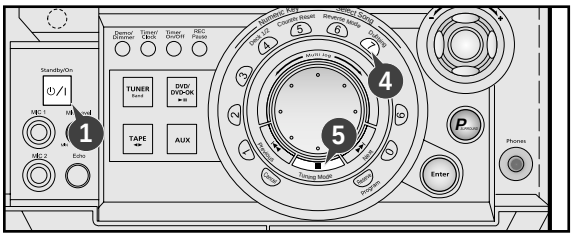
You can copy a cassette from Deck 1 to Deck 2.

Note
- Normal speed dubbing
- You do not need to adjust the volume, as it has no effect on the recording.
- Take care not to insert the tape to be copied in Deck 2, as it will be erased when you start recording.

1. Switch your system on by pressing **Standby/On** button.
2. Insert a blank cassette in Deck 2.
3. Insert the tape to be copied in Deck 1.
4.

To copy a cassette at...	Press...
Normal speed	Dubbing

   Result: The appropriate indications are displayed and the cassette in Deck 1 is copied to the cassette in Deck 2.
5. To stop dubbing,press the **Stop**(■) button.

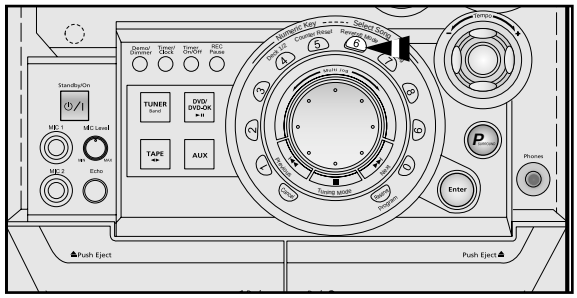


Selecting the Cassette Playback Mode

Your Mini Component System has three cassette playback modes which enable you to listen to both sides of a cassette automatically.

Press the Reverse Mode button the appropriate symbol is displayed.

When the display indicates...	The Mini Component System plays back...
⇒	One side of the selected cassette and then stops.
⇄	One side of the cassette. The other side of the cassette and then stops.
↻	Both sides of the cassette indefinitely until you press stop.

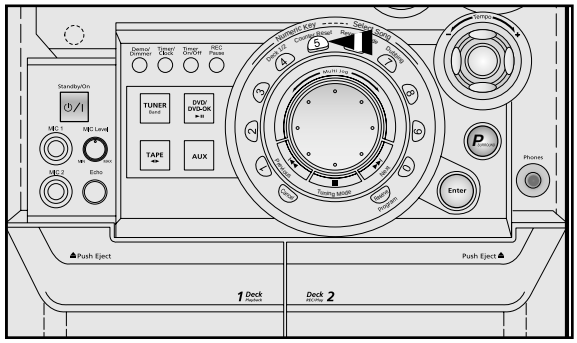


Tape Counter

When playing a cassette in one of the cassette decks, a counter is displayed to enable you to take note of the counter value at the start of each track to start playback at the beginning of the track to which you wish to listen.

Before starting to record a cassette for which you wish to take note of the counter values at the beginning of each track, reset the counter by pressing Counter Reset button.

Note Each cassette deck has a separate counter.



Timer Function

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The timer enables you to switch the system on or off at specific times.
Example: You wish to wake up to music every morning.

Note If you no longer want the system to be switched on or off automatically, you must cancel the timer.

Note
- Before setting the timer, check that the current time is correct.
- For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

1 Switch the system on by pressing **Standby/On** button.

2 Press the **Timer/Clock** button until ◴ **TIMER** is displayed.

3 Press the **Enter** button.
Result: **ON TIME** is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-on time already set; you can set the timer switch-on time.

4 Set the timer switch-on time.
- **a** Set the hour by tuning the **Multi Jog** knob to the right or to the left.
- **b** Press the **Enter** button.
  Result: The minutes flash.
- **c** Set the minutes by tuning the **Multi Jog** knob to the right or to the left.
- **d** Press the **Enter** button.
  Result: **OFF TIME** is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-off time already set; you can now set the timer switch-off time.

5 Set the timer switch-off time.
- **a** Set the hour by tuning the **Multi Jog** knob to the right or to the left.
- **b** Press the **Enter** button.
  Result: The minutes flash.
- **c** Set the minutes by tuning the **Multi Jog** knob to the right or to the left.
- **d** Press the **Enter** button.
  Result: **VOL XX** is displayed, where **XX** corresponds to the volume already set.

6 Press ⏮ ⏭ button to adjust the volume level and press the **Enter** button.
Result: The source to be selected is displayed.

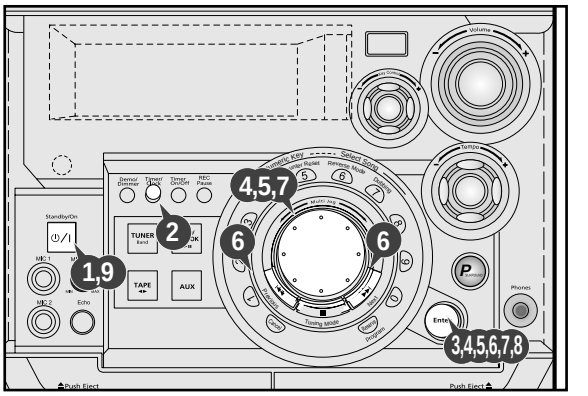
7 Turn the **Multi Jog** knob to select the source to be played when the system switches on.

If you select...	You must also...
TAPE (cassette)	Insert a recorded cassette in one of the decks before setting the system to standby.
TUNER (radio)	**a** Press the **Enter** button. **b** Select a preset station by tuning the **Multi Jog** knob to the right or to the left.
DVD/CD (compact disc)	Load one or more discs.

8 Press the **Enter** button to confirm the timer.

9 Press the **Standby/On** button set the system to standby mode.
Result: ◴ is displayed to the top right of the time, indicating that the timer has been set. The system will switch on and off automatically at the required times.

Note If the timer switch on and off times are identical, the word **ERROR** is displayed.



To set the timer function

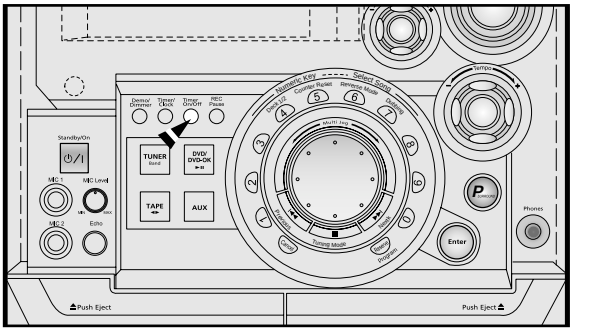
- You may use **Multi Jog** or ⏮ / ⏭ buttons to adjust in step **4**, **5**, **6**, **7**.

Cancelling the Timer

After having set the timer, it will start automatically as shown by the TIMER indication on the display. If you no longer wish to use the timer, you must cancel it.

Note You can stop the timer at any time (system on or in standby mode).

To...	Press Timer-On/Off...
Cancel the timer	Once. Result: ◴ is no longer displayed.
Restart the timer	Twice. Result: ◴ is displayed again.

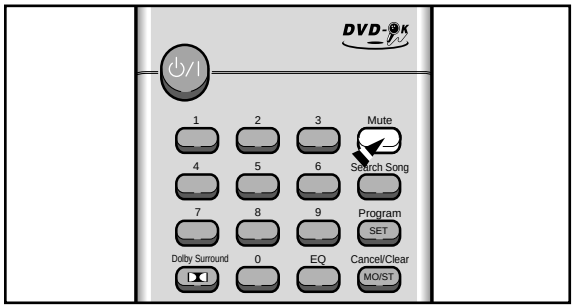


Mute Function

You can turn the sound off temporarily on your system.
Example: You wish to answer a telephone call.

1 Press the **Mute** button.

2 To switch the sound back on (at the same volume as before), press the **Mute** button again or the **Volume** buttons.



Selecting an Equalizer Preset

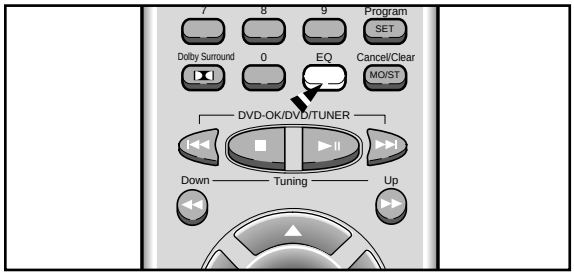
Your mini-compact system is equipped with a preset equalizer that allows you to choose the most appropriate balance between treble and bass frequencies, according to the type of music you are listening to

Press **EQ** button on the remote control until the required option is selected. Each time the **EQ** button is pressed in sequence, the equalizer modes and sounds mode "**PASS, POP, ROCK, CLASSIC, HALL, LIVE, CINEMA, DISCO**" are selected in this order.

Equalizer mode

PASS ····· Normal balance (linear)
POP ····· Balance suitable for pop music
ROCK····· Balance suitable for rock music
CLASSIC ····· Balance suitable for classic music
HALL····· Balance suitable for hall
LIVE ····· Balance suitable for live
CINEMA····· Balance suitable for cinema
DISCO ····· Balance suitable for disco

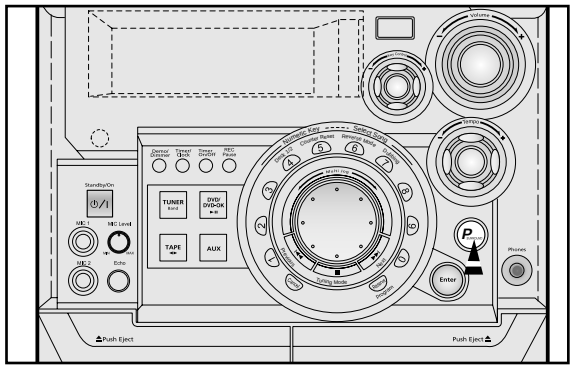
The corresponding indication in the display is preceded by a red arrow (except for the normal balance Pass, for which nothing is displayed).



Power Surround Function

Your Mini Component System is equipped with the function of Power Surround.
The Power Surround replaces conventional stereo sound with a wider and more true-to-life sound. It creates the feeling of being right at the centre of the music and being surrounded by total music sound.

Press P. SURROUND button on the front panel until the required option is selected.
Result: Each time the P. SURROUND button is pressed, **"P.SURR"** is selected or cancelled in this order.

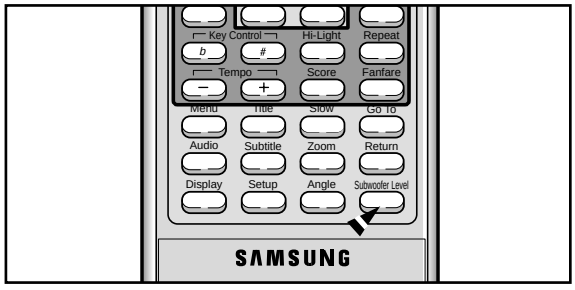


Subwoofer Level Function

Subwoofer function stresses low tones providing thudding sound effects.

1 Press the Subwoofer Level button repeatedly to select
OFF→WOOFER 1→WOOFER 2→WOOFER 3→WOOFER 4

2 You can select the level of low tones you desire



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Setting the System to Switch off Automatically

While listening to a compact disc or a cassette, you can set the system to switch off automatically
Example: You wish to go to sleep to music.

1 Press the **Sleep** button.
Result: playback starts and the following indications are displayed:

90 MIN

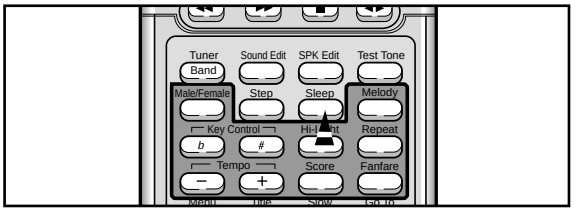
2 Press the **Sleep** button one or more times to indicate how long the system should continue playing before it switches off:

90 MIN → 60 MIN → 45 MIN → 30 MIN → 15 MIN → OFF → 90 MIN

Note At any time, you can:

- Check the remaining time by pressing **Sleep** button.
- Change the remaining time by repeating Steps **1** and **2**.

3 To cancel SLEEP function, press the **Sleep** button one or more times until **OFF** is display.

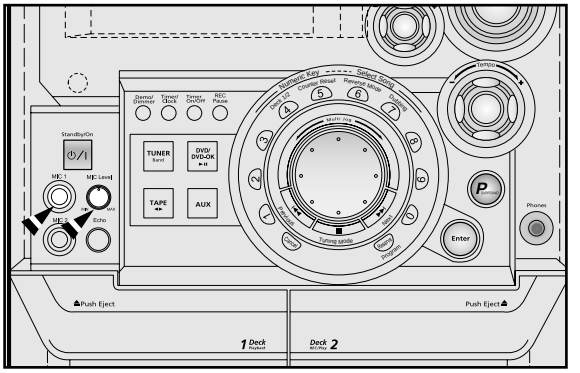


Microphone Function

The microphone enables the user to mix in his or her vocals to sing-along with the music.

Preparation
Plug the microphone with a 6.3mm mic jack into microphone terminal.
Turn the MIC Level knob to adjust the MIC volume.

Note The sound will be changed 2.1 channels from 5.1 channels when plugging the microphone into MIC jack.

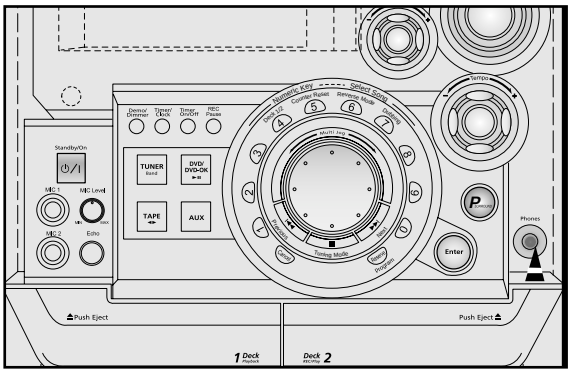


Connecting Headphones

You can connect a set of headphones to your Mini Component System so that you can listen to music or radio programmers without disturbing other people in the room. The earphones must have a 3.5 ø jack or an appropriate adapter.

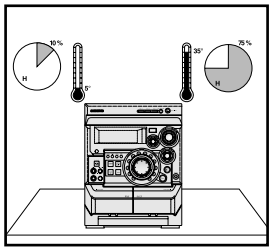
Connect the headphones to the **Phones** jack on the front panel.
Result: The loudspeakers are no longer used to output the sound.

Note Prolonged use of headphones at a high volume may damage your hearing.

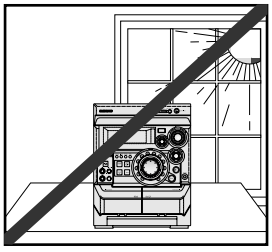


Safety Precautions

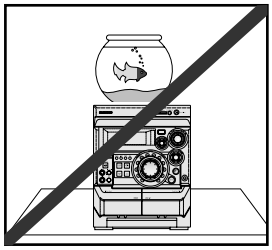
The following diagrams illustrate the precautions to be taken when using or moving your Mini Component System.



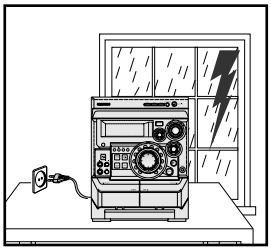
Ambient operating conditions:
Ambient temperature 5°C-35°C
Humidity 10-75%



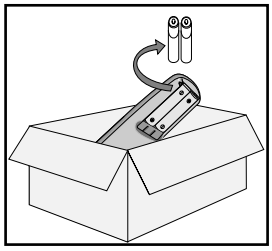
Do not expose the unit to direct sun radiation or other heat sources. This could lead to overheating and malfunction of the unit.



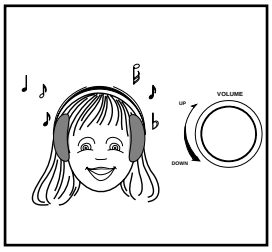
Do not place potted plants or vases on top of the unit. Moisture entering the unit could lead to dangerous electric shock and can cause equipment damage. In such events immediately disconnect the main plug from the socket.



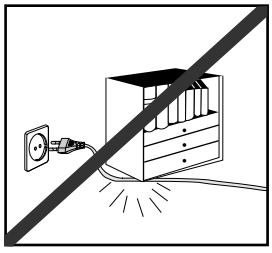
During thunderstorms, disconnect the main plug from the socket. Main voltage peaks due to lightning could damage the unit.



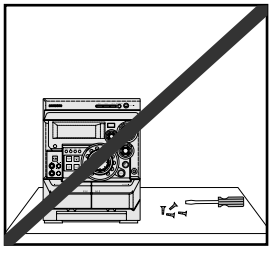
Remove the batteries from the remote control, if not used for any extended period.
Leaking batteries can cause serious damage to the remote control.



When using headphones, take care not to listen at excessive volumes. Extended use of headphones at high volumes will lead to hearing damage.



Do not place heavy items on the main lead. Main cable damage can lead to damage of the equipment (fire hazard) and can cause electric shock.



Do not remove any equipment panels. The inside of the unit contains live components, which cause electric shock.

Cleaning Your Mini Component System

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To obtain the best possible results from your Mini Component System, you must clean the following elements regularly:

- The outer casing
- The disc player
- The cassette players (heads, rollers and drive capstans)

Note Always unplug the system from the wall outlet:

- Before cleaning it
- If you are not going to be using it for a long time

Outer Casing

Clean the outer casing regularly using a soft cloth and a light detergent. Do not use abrasive powders, liquids or aerosol cleaners. Never let any liquids get into the system.

Disc Player

1 Before playing a disc, clean it with a special CD cleaning agent. Do not use the same cleaning agents as for vinyl LP records. Carefully wipe the disc from the centre outward.

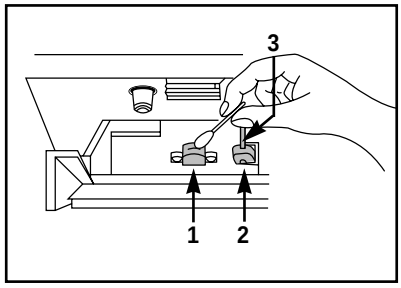
2 Regularly clean the player with a special cleaning disc (available from your local dealer).

Tape Decks

1 Press **Push Eject**(⏏) to open the cassette deck.

2 Use a cotton bud and a special cassette cleaning agent to clean the:

- Head (1)
- Rollers (2)
- Drive capstans (3)



Note

- If you will not be using the remote control for a long time, remove the batteries to prevent corrosion.
- Although your system is very hard-wearing, it should not be used in an excessively dusty environment or subjected to shocks or extreme heat (close to heating appliances or in direct sunlight, etc.).
- If the unit emits an unpleasant odor when in use, unplug it from the main supply and contact the after-sales service.

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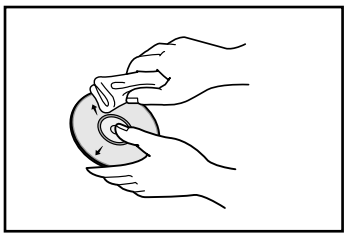
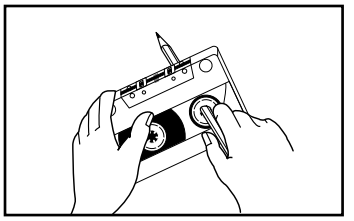
Precautions When Using Discs

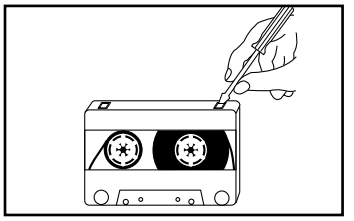
- Handle your discs with care. Always hold them by the edges to avoid leaving fingerprints on the shiny surface.
- When you have finished playing a disc, always put it back in its case.
- Do not fix paper or adhesive tape to the discs and do not write on the label.
- Clean them with a special-purpose cloth.
- Store your discs in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.

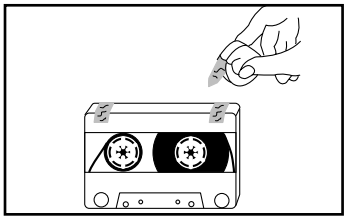


Precautions When Using Audio Cassettes

- Check that the tape in the cassette is sufficiently taught.
- To prevent erasing a cassette that you wish to keep, remove the safety tab on the upper edge of the cassette. To record a cassette, where the tab has been broken, simply cover the opening with adhesive tape.
- When you have finished playing a cassette, always put it back in its case.
- Store your cassettes in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- Avoid using 120-minute cassettes as they place unnecessary strain on the tape mechanism.







Before Contacting the After-Sales Service

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cord, and contact the nearest authorized dealer or Samsung Electronics Service Center.

	Problem	Checks/Explanation
GENERAL	The system does not work	• *The main lead is not correctly plugged into a wall socket or the wall socket is not switched on.* • *The remote control batteries need replacing or the polarity has not been respected.* • *The Standby/On button has not been pressed.*
	There is no sound	• *The volume has been completely turned down.* • *The correct function (TUNER, DVD/DVD-OK, TAPE, AUX) has not been selected.* • *You have connected a set of earphones.* • *The loudspeaker wires have been disconnected.* • *The MUTE button has been pressed.*
	The Timer does not work	• *The timer has been stopped by pressing Timer On/Off.*
	In case it does not work, even the action is taken as above.	• *Press the **P. SURROUND** button for 5 seconds in power 'OFF'(standby), then it is returned the original position (RESET)*
DVD/CD	The disc player does not start playing	• *The DVD/DVD-OK function has not been selected.* • *The disc has been inserted face down or is either dirty or scratched.* • *The laser sensor is dirty or dusty.* • *The system has not been installed on a flat, horizontal surface.* • *Condensation has formed in the player; leave the system in a warm, airy room for at least one hour.*
	When playing a DTS, DVD disc, no sound is produced.	• Since this product incorporates technology, no sound will be output directly from the main unit. • To listen to DTS sound, connect an amplifier equipped with a DTS decoder to the digital output (OPTICAL OUT).
CASSETTES	The tape does not start playing	• *The TAPE function has not been selected.* • *The cassette has not been inserted correctly.* • *The cassette player has not been closed.* • *The tape is either slack or broken.*
	The volume falls off The cassette is not erased correctly There is excessive wow and flutter	• *The audio heads are dirty.* • *The rollers or drive capstans are dirty.* • *The tape is worn.*
RADIO	Reception is poor or no radio stations are received at all	• *The TUNER function has not been selected.* • *The radio frequency has not been correctly selected.* • *The aerial has been disconnected or is not facing the right way. Turn it until you find the best orientation.* • *You are in a building that blocks radio waves; you must use an outside aerial.*

Technical Specifications

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SAMSUNG strives to improve its products at all times. Both the design specifications and these user instructions are thus subject to change without notice.

RADIO	
AM(MW)	
Tuning range	522 - 1611KHz
Signal/noise ratio	40 dB
Usable sensitivity	54 dB
Total harmonic distortion	2 %
LW	
Tuning range	144 - 290KHz
Signal/noise ratio	40 dB
Usable sensitivity	60 dB
Total harmonic distortion	2 %
FM	
Tuning range	65.0 ~ 74.0MHz / 87.5 ~ 108.0MHz
Signal/noise ratio	62 dB
Usable sensitivity	10 dB
Total harmonic distortion	0.3 %
DISC PLAYER	
Capacity	3 discs
Frequency range	20 Hz - 20 KHz (± 1 dB)
Signal/noise ratio	90 dB (at 1 KHz) with filter
Distortion	0.05 % (at 1 KHz)
Channel separation	74 dB
Disc sizes	Diameter: 120 or 80 mm. Thickness: 1.2 mm
TAPE DECK	
Frequency range	125 Hz ~ 12 KHz
Signal/noise ratio	40 dB
Channel separation	35 dB
Erasing effect	60 dB
AMPLIFIER	
Output power	
front speakers(4 Ω)	40 Watts/CH RMS,IEC (total harmonic distortion: 10 %)
subwoofer speakers(6 Ω)	80 Watts/CH RMS,IEC (total harmonic distortion: 10 %)
center,rear(L,R) speakers(6 Ω)	3 x 30 Watts RMS,IEC (total harmonic distortion: 10 %)
Channel separation	50 dB
Signal/noise ratio	75 dB
GENERAL	
Dimensions	270 (W) x 332 (H) x 476 (D) mm

Note on Terminology

ANGLE	Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left , from the right , etc.). With such discs, the Angle button can be used to change the angle of view for specific scenes.
CHAPTER NUMBER	These numbers are recorded on DVD discs. A Title is subdivided into many sections, each of which is numbered, and specific parts of the video can be searched quickly using these numbers.
DVD	A high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG-2) and high-density recording technology, a DVD disc comprises two 0.6 mm thick discs bonded together.
PCM	An acronym for Pulse Code Modulation - another name for digital audio.
PBC (PLAYBACK CONTROL)	This is recorded on a video CD (version 2.0). Selected scenes or information can be chosen from the menu displayed on the TV monitor.
REGION NUMBER	Both the DVD player and DVD discs are encoded with a region number. If the region number on the DVD disc does not correspond to the region number of the DVD player, the player cannot play the disc.
SUBTITLES	Translated appearing at the bottom of the screen. A DVD disc can contain up to 32 subtitle languages.
TITLE NUMBER	These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as Title 1, Title 2, etc.
TRACK NUMBER	These numbers are assigned to the tracks which are recorded on video and audio CDs. They enable specific tracks to be located quickly.
VIDEO CD	Contains recordings of pictures and sound whose quality is roughly comparable to that of video tape. This player also supports video CDs with playback control (version 2.0).
dts	You can enjoy 5.1 (or 6) channels of high fidelity digital sound from various digital input sources such as laser discs, DVD, CD etc. DTS provides a realistic, clear surround sound that has not previously been available from conventional surround sound.
DOLBY DIGITAL	5.1 (or 6) Channel Digital Surround sound reproduced from DVDs and LDs recorded as a digital signals (with DOLBY DIGITAL disc marking). With better sound quality, dynamic range, and directionality than the traditional Dolby surround technology, you can enjoy the dynamic realistic sound.
PRO LOGIC	A 4 channel analog sound reproduced from a program source such as a videotape or LD with the DOLBY PRO LOGIC mark. You can enjoy a more realistic, robust sound unavailable from regular stereo sources.

MEMO

THIS APPLIANCE IS MANUFACTURED BY:

ELECTRONICS

AH68-01395A